

abcam

Animal Models & Veterinary Research

Tackling key challenges in the life sciences with advanced biological tools



Introduction

Animal models

An animal model is an animal with a disease either the same as or like a disease in humans. Animal models are used to study the development and progression of diseases and to test new treatments before they are given to humans¹.

Veterinary research

Veterinary research includes research on prevention, control, diagnosis, and treatment of diseases of animals and on the basic biology, welfare, and care of animals. Veterinary research transcends species boundaries and includes the study of spontaneously occurring and experimentally induced models of both human and animal disease and research at human-animal interfaces, such as food safety, wildlife and ecosystem health, zoonotic diseases, and public policy².

"Between animal and human medicine there is no dividing line—nor should there be. The object is different but the experience obtained constitutes the basis of all medicine."

Rudolf Virchow (1821–1902)

References:

1. www.cancer.gov
2. National Research Council, Committee on the National Needs for Research in Veterinary Science

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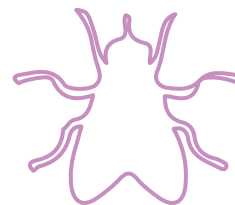
Animal models



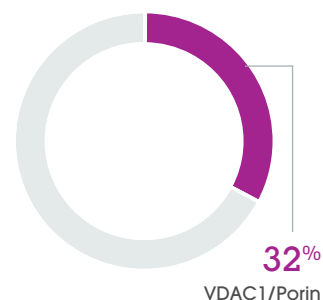
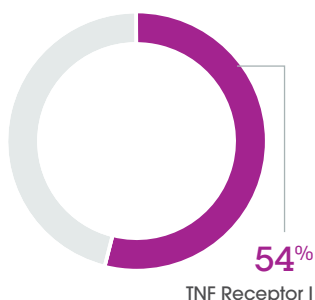
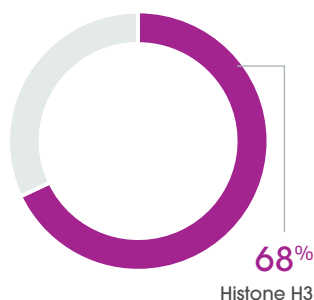
Commonly used animal models

Fruit fly (*Drosophila melanogaster*)

Our catalogue has over 250 products to cover more than 100 antigens/proteins in drosophila research, including non-recombinant and recombinant primaries.



Popularity of related targets



Epigenetics

13% RNA polymerase II CTD repeat
YSPTSPS

6% Histone H4

4% Fibrillarin

3% SC35

Others: Dnmt3a, Ago1, EIF2S1,
Argonaute-2, MeCP2

Immuno-Oncology

28% LC3A/B

10% LAMP1

7% Drosophila FMR1

1% Bad

Neuroscience

29% Alpha-synuclein

15% Superoxide Dismutase 1

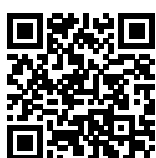
9% BACE1

6% Glutamine Synthetase

Others: alpha 1 Adrenergic
Receptor/ADRA1, Ataxin 7, Tyrosine
Hydroxylase, DCTN1/p150-glued

Product highlights

Name	Tested application	Cat. no.
AMP1 antibody - Drosophila Lysosome Marker	ICC/IF, WB	ab30687
Axons of the Drosophila CNS antibody	ICC, ICC/IF, IHC-Fr, IHC-FoFr, IHC-P	ab12455
Drosophila FMR1 antibody	ELISA, ICC/IF, IP, WB	ab10299
GM130 antibody - Drosophila Golgi/Cis-Golgi Marker	ICC/IF, WB	ab30637
Rab5 antibody - Drosophila Early Endosome Marker	ICC/IF, WB	ab31261

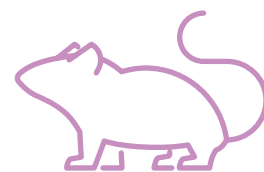


Find more at www.abcam.com/drosophila

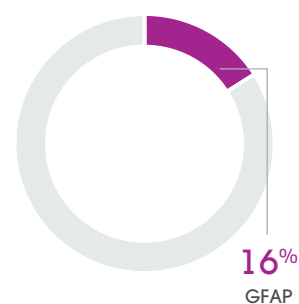
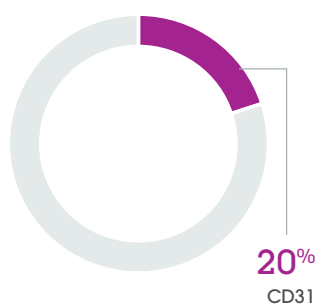
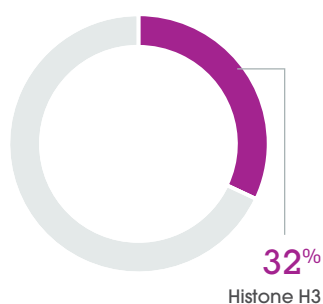
Commonly used animal models

Mouse (*Mus musculus*)

Our catalogue has over 25,000 products to cover more than 8,500 antigens/proteins in mouse research, including non-recombinant and recombinant primaries, secondaries, ELISA kits, proteins and peptides.



Popularity of related targets



Epigenetics

21% c-Myc

8% HMGB1

6% Oct4

6% HIF-1 alpha

Others: RNA polymerase II CTD repeat
YSTSPS, Nrf2, gamma H2A.X,

Immuno-Oncology

20% alpha smooth muscle Actin

16% Collagen I

9% LAMP1

7% VEGFA

Others: CD3, Mannose Receptor,
VEGFA, iNOS, LC3B

Neuroscience

15% MAP2

13% Iba1

12% Ctip2

10% Doublecortin

Others: beta III Tubulin, CTGF, Tyrosine
Hydroxylase, TBR1, activated Notch1

Hot Antibody Sampler Panels

Cat. no.	Panel name	Component cat. no.	Size	Components	Tested applications
ab107156	Embryonic Stem Cell Marker - Mouse	ab16285	1 x 50µl	Anti-SSEA1 antibody (MC-480)	Flow Cyt, ICC, IF, IHC-Fr, IHC-P, IHC-FoFr, IP
		ab19857	1 x 50µg	Anti-Oct4 antibody - ChIP Grade	ChIP, ChIPseq, Flow Cyt, ICC, IF, IP, WB
		ab80892	1 x 50µl	Anti-Nanog antibody	Flow Cyt, IHC - Wmt, ICC, ICC, IF, IHC-P, WB
		ab97959	1 x 50µg	Anti-SOX2 antibody	IHC-Wmt, ICC, IF, IHC-P, IHC-Fr, IP, WB
ab254015	Fibroblast Marker - Human, Mouse	ab109117	2 x 10µl	Anti-Hsp47 antibody (EPR4217) KO VALIDATED	IHC-P, WB
		ab197896	2 x 10µl	Anti-S100A4 antibody (EPR14639(2)) KO VALIDATED	Flow Cyt, ICC, IF, IHC-P, IP, WB
		ab32575	2 x 10µl	Anti-alpha smooth muscle Actin antibody (E184)	Flow Cyt, ICC, IF, IHC-Fr, IHC-P, IHC-Fr, WB
		ab92547	2 x 10µl	Anti-Vimentin antibody (EPR3776) - Cytoskeleton Marker KO VALIDATED	Flow Cyt, ICC, IF, IHC-P, IHC-Fr, WB
ab254026	Mature Oligodendrocyte Marker - Human, Mouse	ab155279	2 x 10µl	Anti-SOX10 antibody (EPR4007)	Flow Cyt, ICC, IF, WB
		ab227680	2 x 10µl	Anti-SOX10 antibody (SP267)	Flow Cyt, ICC, IF, IHC-P, WB
		ab218011	2 x 10µl	Anti-Myelin Basic Protein antibody (EPR21188)	IHC-P, IHC-Fr, WB
		ab109186	2 x 10µl	Anti-Olig2 antibody (EPR2673)	IHC-P, IHC-Fr, WB
		ab109746	2 x 10µl	Anti-Myelin oligodendrocyte glycoprotein antibody (EP4281)	IHC-P, WB
ab254025	Plasma Membrane Marker - Human, Mouse	ab76020	2 x 10µl	Anti-Sodium Potassium ATPase antibody (EP1845Y) - Plasma Membrane Loading Control	Flow Cyt, ICC, IF, IHC-P, WB
		ab190355	2 x 10µl	Anti-PMCA1 antibody (EPR12029)	IHC-P, WB
		ab22744	2 x 10µg	Anti-pan Cadherin antibody (mAbcam22744)	Flow Cyt, ICC, IF, IHC-P, WB
		ab7671	2 x 10µg	Anti-alpha 1 Sodium Potassium ATPase antibody (464.6) - Plasma Membrane Marker	Flow Cyt, ICC, IF, IHC-P, WB
		ab51034	2 x 10µl	Anti-pan Cadherin antibody (EPR1792Y) - Intercellular Junction Marker	Flow Cyt, ICC, IF, IHC-P, IP, WB



Find more at www.abcam.com/mouse

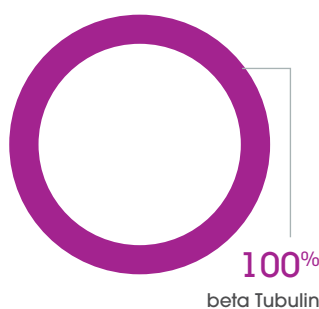
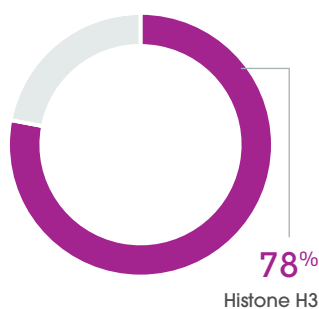
Commonly used animal models

Nematode worm (*Caenorhabditis elegans*)

Our catalogue has over 80 products to cover more than 30 antigens/proteins in drosophila research, including non-recombinant and recombinant primaries.



Popularity of related targets



Epigenetics

15% RNA polymerase II CTD repeat
YSPTSPS

4% Fibrillarin

2% Histone H4

Others: RPS6, SIRT3

Immuno-Oncology

Product highlights

Name	Tested application	Cat. no.
C. elegans SNAP25 protein	SDS-PAGE	ab51291
Histone H3 (tri methyl K4) antibody	ChIP, CHIPseq, ChIP/Chip, Flow Cyt, ICC, ICC/IF, IHC-Fr, IHC-P, IP, PepArr, WB	ab8580
Histone H3 (di methyl K9) antibody	ChIP, ELISA, Flow Cyt, ICC/IF, IHC-Fr, IHC-P, IP, WB	ab1220
PRG1 antibody	WB	ab15826
RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody	ChIP, CHIPseq, ChIP/Chip, Dot blot, ELISA, ICC/IF, IHC-FoFr, IHC-Fr, IHC-P, IHC - Wholemount, WB	ab5095

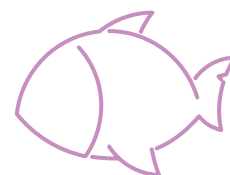


Find more at www.abcam.com/worm

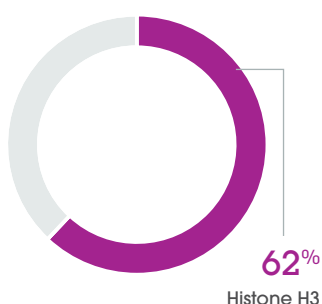
Commonly used animal models

Zebrafish (*Danio rerio*)

Our catalogue has over 400 products to cover more than 300 antigens/proteins in drosophila research, including non-recombinant and recombinant primaries, proteins and peptides.

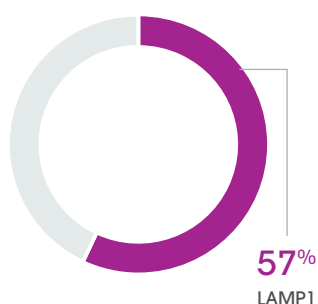


Popularity of related targets



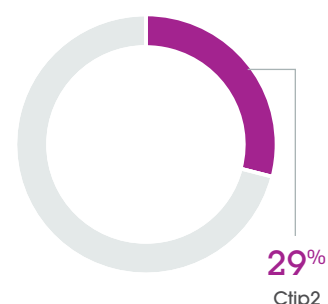
Epigenetics

12% RNA polymerase II CTD repeat
YSPTSPS
5% Histone H2A.Z
5% Bmi1
4% Dnmt1
Others: Argonaute-2, Fibrillarin,
Ctip1/BCL-11A, GATA2, HIF1 beta,
SMAD1/5/9



Immuno-Oncology

32% LC3B
7% alpha smooth muscle Actin
3% Lactate Dehydrogenase
Others: EGFR, Collagen I



Neuroscience

13% PSD95
10% GFAP
10% PSD95
10% VDAC1/Porin
Others: PGP9.5, EAAT1, Rhodopsin,
Tau, BLBP

Product highlights

Name	Tested application	Cat. no.
Zebrafish Basement Membrane From Intestinal Epithelial antibody	ICC/IF, IP, WB	ab71312
Zebrafish DeltaD antibody	ELISA, Flow Cyt, ICC/IF, IHC-Fr, IHC - Wholemount, WB	ab73331
Zebrafish Gut Secretory Cell Epitopes antibody	ELISA, ICC, ICC/IF, IHC-P, IHC - Wholemount, IP, WB	ab71286
Zebrafish Gut Absorptive Cell Epitopes antibody	ICC/IF, IHC - Wholemount, IP, WB	ab73643
Zebrafish Posterior Intestinal Goblet Cells antibody	ICC/IF, WB	ab71508
Zebrafish p53 antibody	IHC-P, WB	ab77813



Find more at www.abcam.com/zebrafish1

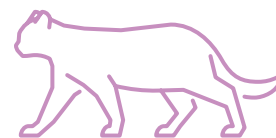
Veterinary research



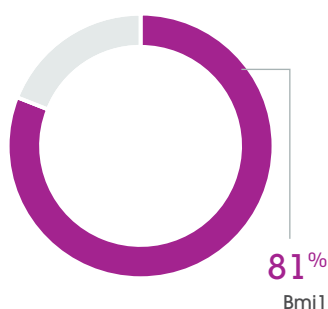
Veterinary research

Cat *(feline)*

Our catalogue has over 180 products to cover more than 100 antigens/proteins in feline research, including non-recombinant and recombinant primaries, secondaries, ELISA kits, proteins and peptides.

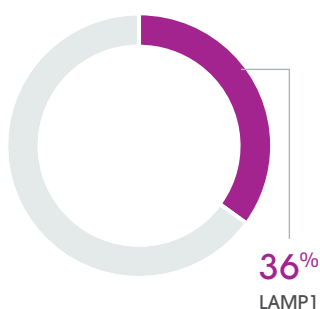


Popularity of related targets



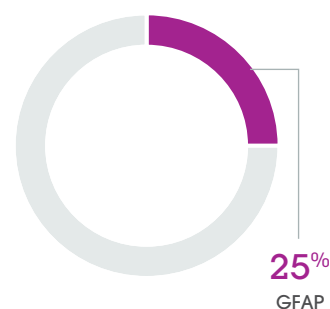
Epigenetics

18% PAX8
1% Myogenin



Immuno-Oncology

28% SOX2
24% Collagen I
7% HLA Class I
3% alpha 1 Fetoprotein
Others: FOXP3, CD14, CD134/ OX40L receptor, CXCL9, MRP8 + MRP14, IL-1 alpha



Neuroscience

15% Doublecortin
14% NeuN
12% beta III Tubulin
10% Tyrosine Hydroxylase
Others: VDAC1/Porin, MAP2, Neurofilament heavy polypeptide, GAD65 + GAD67, 160 kD Neurofilament Medium

Product highlights

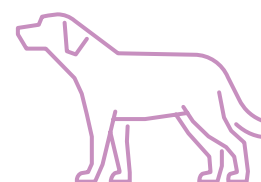
Name	Tested application / Assay type	Cat. no.
Feline Calicivirus	ELISA, IHC-P, WB	ab33990
Feline Cytokine Antibody Array	Quantitative	ab197414
Feline immunodeficiency virus antibody	ELISA, Flow Cyt, ICC/IF, IHC-Fr, WB	ab65289
Feline IL-8 antibody	Sandwich (quantitative)	ab193688
Feline Leukemia antibody	ELISA, IP, RIA	ab116669
Leptospira biflexa antibody	Conjugation, ICC/IF	ab20110
Toxoplasma gondii antibody	ELISA, ICC/IF, WB	ab8313



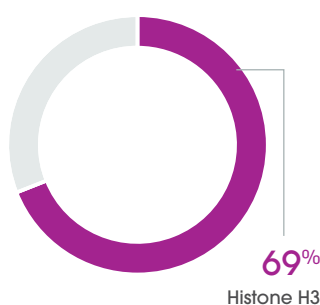
Find more at www.abcam.com/cat

Dog *(canine)*

Our catalogue has over 750 products to cover more than 500 antigens/proteins in mouse research, including non-recombinant and recombinant primaries, secondaries, ELISA kits, proteins and peptides.

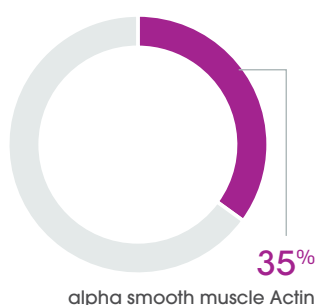


Popularity of related targets



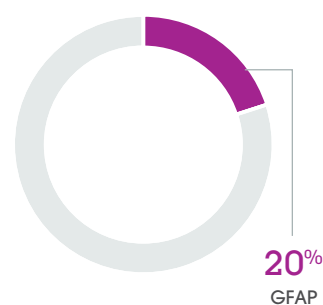
Epigenetics

8% p53
7% gamma H2A.X
3% RUNX2
3% Lamin A + Lamin C
3% Lamin A
Others: SIRT1, Prohibitin, HDAC2, KAT2B/PCAF



Immuno-Oncology

15% LAMP1
10% Collagen I
9% VEGFA
9% LC3B
Others: Heme Oxygenase 1, Fibroblast activation prot, L-17, EpCAM, TNF Receptor I



Neuroscience

19% MAP2
16% Iba1
10% beta III Tubulin
7% VDAC1/Porin
Others: NeuN, beta III Tubulin, Dystrophin, VDAC1/Porin, Myelin Basic Protein

Product highlights

Name	Tested application / Assay type	Cat. no.
Canine Cytokine Antibody Array	Quantitative	ab197411
Canine coronavirus protein	ELISA	ab270828
Canine Heartworm antibody	ICC/IF, IP, Sandwich ELISA, WB	ab193773
Canine Osteopontin ELISA kit	Sandwich (quantitative)	ab205077
Canine papillomavirus 2 E7 antibody	ELISA, WB	ab93703
Human Anti-Toxocara canis IgG ELISA Kit	Indirect ELISA	ab108775
Rabies Virus Glycoprotein antibody (1C5)	ICC/IF, Indirect ELISA	ab82460

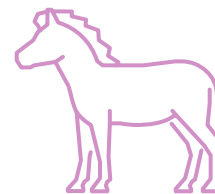


Find more at www.abcam.com/dog

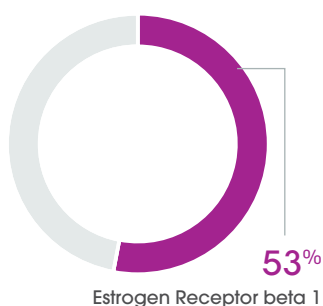
Veterinary research

Horse *(equine)*

Our catalogue has over 80 products to cover more than 50 antigens/proteins in equine research, including non-recombinant and recombinant primaries, secondaries, ELISA kits, proteins and peptides.

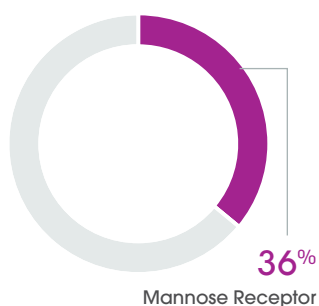


Popularity of related targets



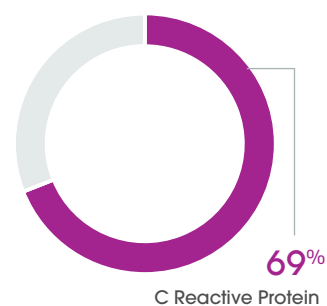
Epigenetics

21% Estrogen Receptor beta
15% Cyclin T1
11% Estrogen Receptor beta



Immuno-Oncology

35% EGFR
26% alpha smooth muscle Actin
Others: EGFR, Carbonic, Anhydrase 9/CA9, CD11 + CD18



Neuroscience

29% E Cadherin
Others: TRPV4, Ryanodine Receptor

Product highlights

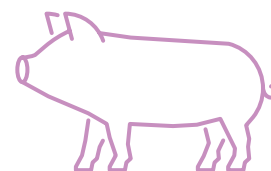
Name	Tested application / Assay type	Cat. no.
Equine Cytokine Antibody Array (10 Targets)	Quantitative	ab197413
Equine IL-10 ELISA Kit	Sandwich (quantitative)	ab155466
Horse Resistin ELISA kit	Sandwich (quantitative)	ab272031
Recombinant Eastern Equine Encephalitis Virus E3E2 protein (His tag)	ELISA, SDS-PAGE, WB	ab230255
West Nile Virus M glycoprotein antibody	ICC/IF, IHC-P, WB	ab22070



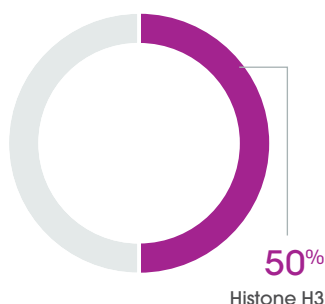
Find more at www.abcam.com/horse

Pig (porcine)

Our catalogue has over 1300 products to cover more than 850 antigens/proteins in porcine research, including non-recombinant and recombinant primaries, secondaries, ELISA kits, proteins and peptides.



Popularity of related targets



Epigenetics

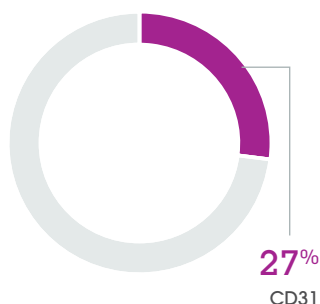
9% DDX4/MVH

8% gamma H2A.X

8% KDM1/LSD1

7% HIF-1 alpha

Others: Aurora B, Oct4, Estrogen Receptor beta, SREBP1, Myogenin



Immuno-Oncology

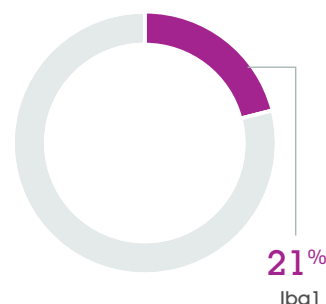
26% alpha smooth muscle Actin

22% Collagen I

9% CD3

6% TGF beta 1

Others: TNF Receptor I, eNOS, Procollagen Type 1, TGF beta Receptor II, Angiopoietin 1



Neuroscience

19% Ctip2

13% beta III Tubulin

10% Tyrosine Hydroxylase

9% VDAC1/Porin

Others: NeuN, Myelin Basic Protein, PGP9.5, Neurofilament heavy polypeptide, Superoxide dismutase

Product highlights

Name	Tested application / Assay type	Cat. no.
Parvovirus antibody (CPV1-2A1)	ELISA, ICC/IF, IHC-P, WB	ab140431
Porcine circovirus antibody	IHC-P, WB	ab183908
Porcine Cytokine Antibody Array A (10 Targets)	Quantitative	ab197479
Porcine PDGF-BB ELISA kit	Sandwich (quantitative)	ab218297
Porcine VEGF-A ELISA Kit	Sandwich (quantitative)	ab218298

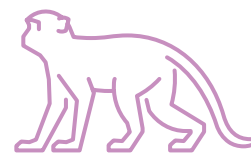


Find more at www.abcam.com/pig

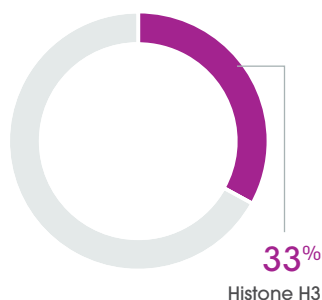
Veterinary research

Primates

Our catalogue has over 850 products to cover more than 500 antigens/proteins in feline research, including non-recombinant and recombinant primaries, secondaries, ELISA kits, proteins and peptides.



Popularity of related targets



Epigenetics

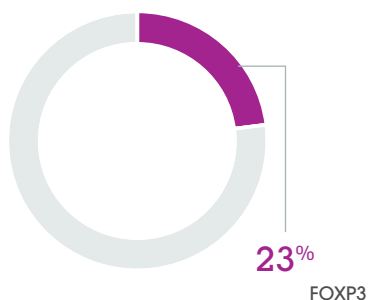
14% Oct4

10% RNA polymerase II CTD repeat
YSPTSPS

8% p53

7% gamma H2A.X

Others: FEI2S1, Nanog, HIF-1 alpha,
Fibrillarin, Estrogen Receptor beta



Immuno-Oncology

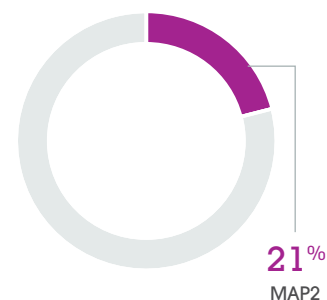
21% LAMP1

14% Collagen I

8% CD31

7% Heme Oxygenase 1

Others: Fibroblast activation prot,
Neuropilin 1, TNF Receptor I, CD8, CCR7



Neuroscience

16% Ctip2

15% GFAP

13% Doublecortin

11% beta III Tubulin

Others: PSD95, Mitofusin 2, CNPase,
Chromogranin A, Superoxide Dismutase 1

Product highlights

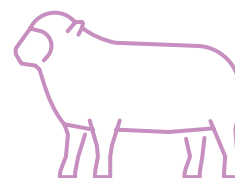
Name	Tested application / Assay type	Cat. no.
Campylobacter jejuni antibody (BGN/2E10)	ELISA, ICC/IF, IHC-Fr, IHC-P	ab54125
Mycobacterium tuberculosis antibody	ICC/IF, IHC-Fr, IHC-P	ab905
Non-Human Primate Cytokine Antibody Array (10 Targets)	Quantitative	ab197478
Streptococcus pneumoniae antibody	ELISA, ICC/IF	ab20429



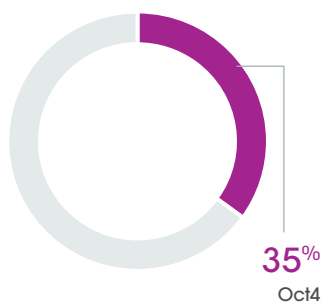
Find more at www.abcam.com/primate

Sheep *(ovine)*

Our catalogue has over 360 products to cover more than 200 antigens/proteins in ovine research, including non-recombinant and recombinant primaries, secondaries, ELISA kits, proteins and peptides.



Popularity of related targets



Epigenetics

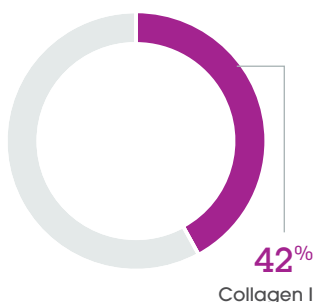
20% DDX4/MVH

18% gamma H2A.X

8% Lamin A + Lamin C

8% Estrogen Receptor beta

Others: PPAR delta, Progesterone Receptor, LXR alpha, Androgen Receptor, Estrogen Receptor beta 1, EIF2S1



Immuno-Oncology

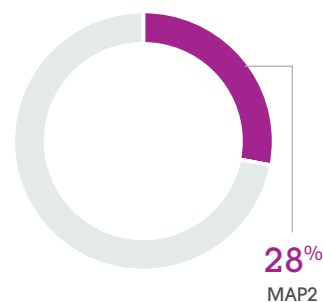
25% alpha smooth muscle Actin

15% CD34

6% VEGF Receptor 2

5% TNF Receptor I

Others: TGF beta 1, VEGFA, CD1d, PGE2 receptor EP4 subtype, Angiopoietin 1



Neuroscience

17% NeuN

12% CTGF

10% VDAC1/Porin

7% Myelin Basic Protein

7% PGP9.5

Others: Tau, Myelin Basic Protein, Superoxide Dismutase 1, VCP

Product highlights

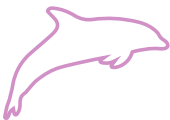





Name	Tested application / Assay type	Cat. no.
Listeria monocytogenes antibody	ELISA, ICC/IF, IHC-P, WB	ab35132
Ovine MHC Class II DR antibody (37.68)	Flow Cyt, IHC-Fr, IP	ab34007
Sheep IgG ELISA Kit	Sandwich (quantitative)	ab190546



Find more at www.abcam.com/sheep

Other species

Other Species available

Species	Name	Cat. no.
	Rabbit Anti-Bottlenose Dolphin IgG H&L secondary antibody (HRP)	ab112789
	Recombinant Dolphin Interferon gamma protein	ab208961
	Recombinant Bottlenose dolphin IL-1 alpha protein	ab117469
	Recombinant Bottlenose dolphin IL-1RA protein	ab169729
	Recombinant Dolphin TNF alpha protein	ab117237
	Anti-p63 antibody (4A4)	ab735
	Anti-CAMKIV antibody	ab3557
	Anti-Cytokeratin 1 antibody (AE1)	ab9286
	Anti-Acidic Cytokeratin antibody (AE-1)	ab187381
	Anti-pan Cytokeratin antibody (AE-1) - BSA and Azide free	ab213135
	Anti-Bovine Papilloma Virus E2 antibody (1E4)	ab980
	Bovine Heart Mitochondria	ab110338
	Bovine IgG ELISA Kit	ab205078
	Bovine IL-2 ELISA Kit	ab193682
	Bovine IL-6 ELISA Kit	ab205080
	Anti-Cyclin B2/CCNB2 antibody (X29.2)	ab18250
	Anti-DLL4 antibody	ab223029
	Anti-GAP43 antibody - Neuronal Marker	ab12274
	Anti-Histone H3 antibody - Nuclear Loading Control and ChIP Grade	ab1791
	Recombinant X. laevis PKC alpha protein	ab60839
	Recombinant X. laevis UBC4 protein (Active)	ab269097
	Anti-Cardiac Troponin T antibody (1F11)	ab10214
	Anti-GAP43 antibody - Neuronal Marker	ab12274
	Anti-Plectin antibody - C-terminal	ab192706
	Anti-Superoxide Dismutase 1 antibody	ab13498
	Anti-VDAC1 / Porin antibody (20B12AF2)	ab14734
	Native rabbit Thrombomodulin protein	ab88556
	Rabbit C Reactive Protein (PTX1) ELISA Kit	ab157726
	Rabbit Cytokine Antibody Array (10 Targets)	ab197459
	Rabbit IgG ELISA Kit	ab187400
	Recombinant rabbit TIGIT protein	ab224645

Comparison sequence homology

If you are looking for an antibody and you cannot find a commercial one available for your protein target tested in your species of interest...This is for you!

Antibodies against a human protein usually recognises the homologous protein in other species like mouse, monkey, rat etc. This is due to the percentage of homology between both proteins. "Percent homology" is often used to mean "sequence similarity." The percentage of identical residues is a parameter commonly used to quantify the homology between proteins.

We consider that to have probabilities of cross-reactivity the homology between the immunogen and the protein target of interest should be higher than 85%. This is debatable based on antibody clonality. For polyclonals raised against large protein fragments, cross reaction at lower homologies is more likely than with monoclonals. Therefore we evaluate the percentage of homology and possibilities to success case by case.

If you are interested in using one of our antibodies. Please contact our Scientific Support team and we will check the homology for you. Also you can take part in our Abtrial program at www.abcam.com/abtrial-program.

BLAST (Basic Local Alignment Search tools)

This program compares nucleotide or protein sequences to sequence databases and calculates the statistical significance. This helps you checking the homology between the immunogen and your target protein.

The program compares nucleotide or protein sequences to sequence databases and calculates the statistical significance

The screenshot shows the NCBI BLAST web interface. Key sections include:

- Enter Query Sequence:** A text box for the query sequence, a 'Clear' button, and a 'Query subrange' section with 'From' and 'To' fields.
- Or, upload file:** A 'Browse...' button and a 'No file selected.' message.
- Job Title:** A text box for a descriptive title.
- Align two or more sequences:** A checkbox.
- Choose Search Set:** A 'Database' dropdown, an 'Organism' dropdown (highlighted with a red box and labeled '2'), and an 'Exclude' section with checkboxes for 'Models (XM/XP)', 'Non-redundant RefSeq proteins (WP)', and 'Uncultured/environmental'.
- Program Selection:** Radio buttons for 'Quick BLASTP (Accelerated protein-protein BLAST)', 'blastp (protein-protein BLAST)' (selected), 'PSI-BLAST (Position-Specific Iterated BLAST)', 'PHI-BLAST (Pattern Hit Initiated BLAST)', and 'DELTA-BLAST (Domain Enhanced Lookup Time Accelerated BLAST)'.
- BLAST:** A large red button at the bottom left (highlighted with a red box and labeled '3').
- Search database or using Blastp (protein-protein BLAST):** A checkbox.
- Show results in a new window:** A checkbox.



Use BLAST now

1 Copy here the immunogen sequence

2 Select your species of interest from the list

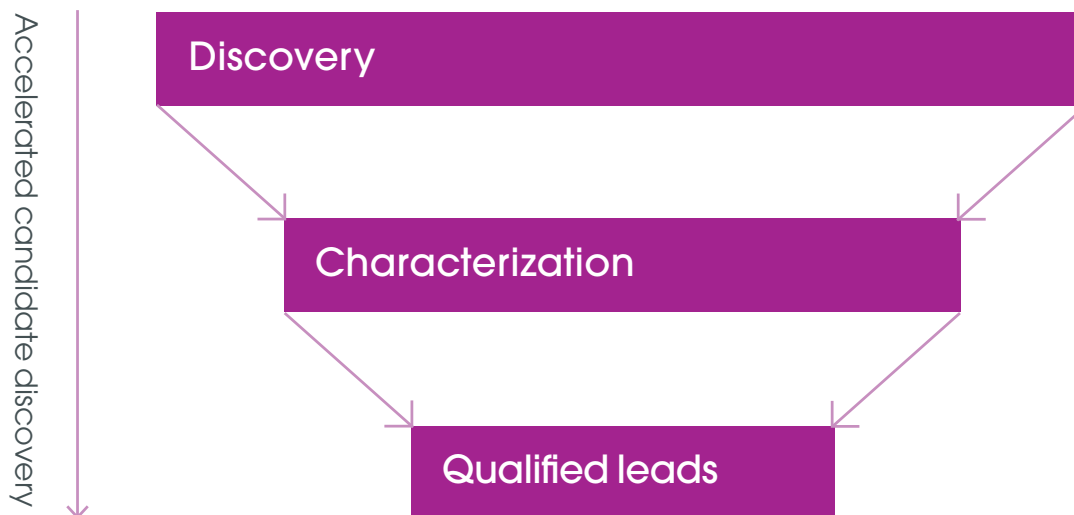
3 BLAST

Custom antibody solutions

For research and diagnostic development

What we offer

Integrated platform to deliver fully characterized antibody candidates for therapeutic and diagnostic selection.



Advantages:

- Flexible strategic approach
- Proven success in RUO and commercial markets
- IP protection
- Multiple antibody discovery platforms, including RabMAb® & RabMAb®-NGS technology and phage display platform.
- ISO 13485, ISO 9001 and GMP Quality Systems

We also offer custom antibody conjugation*, including:

- Alexa Fluor® dyes (405, 488, 555, 568, 594, 647, 680, 750, 790)
- FITC, HRP, Biotin, R-PE, APC, PerCP
- Oligo-conjugates for NanoString GeoMx™ Digital Spatial Profiler (DSP)

*Minimum 1mg



Explore FAQs of our custom solutions

RabMAb® and RabMAb®-NGS technology

Our RabMAb® technology combines the superior antigen recognition of the rabbit immune system with the specificity and consistency of a mouse monoclonal. High affinity, high specificity, high consistency. Fully harness the potential of our RabMAb technology with the power of next-generation sequencing (NGS).

Benefits	RabMAb®	RabMAb®- NGS
High affinity RabMAb® antibodies have high affinity and enhanced performance.	✓	✓
Superior performance Unparalleled recognition of small epitopes, including post-translational modifications, small molecules, short peptides, point mutations, and conformational epitopes.	✓	✓
Find unique binders With wider epitope recognition, we can generate a broader range of antibodies recognizing unique epitopes.	✓	✓
Relevant species binding Rabbit offers options for human, NHP and mouse/rat cross reactivity, giving coverage of preferred species for project progression.	✓	✓
Identify rare binders Even greater pool of candidates compared with traditional hybridoma method. Even better support of discovery efforts for functionally relevant diagnostic and therapeutic antibodies.	×	✓
Navigate challenging IP landscapes Provides a whole library of antibody sequences to support the resulting IP portfolio for legal protection around target binding.	×	✓
Complete bioinformatic support Proprietary bioinformatic support to permit rational clone selection and maximize lead discovery with both depth and breadth approaches.	×	✓

Seven FDA-approved companion diagnostic assays are created using our RabMAb® technology.

Phage display platform

When it is not feasible to use animal systems, we turn to our proprietary in vitro phage display technology to generate recombinant antibodies, at speed.

Use phage display to generate antibodies against

- Toxins
- Infectious agents
- Low immunogenicity targets



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