

Product datasheet

Anti-IL-4 antibody [C1] ab239508

1 References 5 Images

Overview

Product name	Anti-IL-4 antibody [C1]
Description	Mouse monoclonal [C1] to IL-4
Host species	Mouse
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human, Pig Predicted to work with: Chimpanzee, Cynomolgus monkey, Rhesus monkey
Immunogen	Recombinant full length protein (His-tag) corresponding to Human IL-4 aa 25-153. N-terminal His-tag (Expressed in E.coli). Sequence: HKCDITLQEIIKTLNSLTEQKTLCTELTVTDIFAASKNTEKE TFCRAAT VLRQFYSHHEKDTRCLGATAQQFHRHKQLIRFLKRLDRNL WGLAGLNSCP VKEANQSTLENFLERLKTIMREKYSKCSS Database link: P05112 Run BLAST with Run BLAST with
Positive control	IHC-P: Human pancreas, prostate gland and breast cancer tissues. WB: Pig spleen lysate; Recombinant human IL4 protein.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p>

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Protein A/G purified
Purification notes	Purified from TCS.
Clonality	Monoclonal
Clone number	C1
Isotype	IgG2b
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab239508** in the following tested applications.

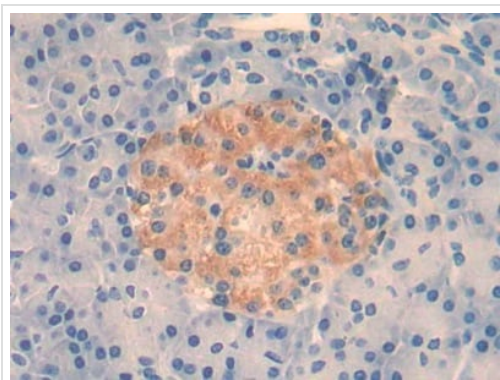
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 30 µg/ml.
WB		Use a concentration of 0.5 - 5 µg/ml. Predicted molecular weight: 17 kDa.

Target

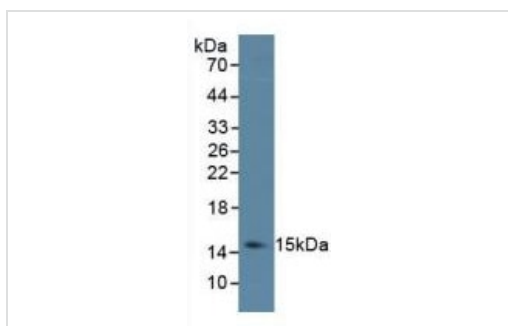
Function	Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes.
Involvement in disease	Genetic variations in IL4 may be a cause of susceptibility to ischemic stroke (ISCHSTR) [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.
Sequence similarities	Belongs to the IL-4/IL-13 family.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-4 antibody [C1] (ab239508)

Paraffin-embedded human pancreas tissue stained for IL4 using ab239508 at 30 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.



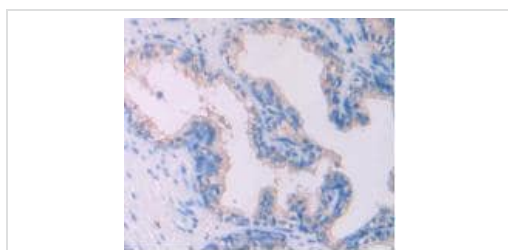
Western blot - Anti-IL-4 antibody [C1] (ab239508)

Anti-IL-4 antibody [C1] (ab239508) at 3 $\mu\text{g/ml}$ + Pig spleen lysate

Secondary

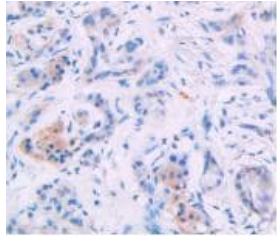
HRP-Linked Rabbit Anti-Mouse IgG at 1/5000 dilution

Predicted band size: 17 kDa



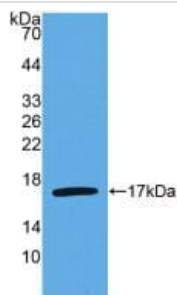
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-4 antibody [C1] (ab239508)

Paraffin-embedded human prostate gland tissue stained for IL4 using ab239508 at 30 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-4 antibody [C1] (ab239508)

Paraffin-embedded human breast cancer tissue stained for IL4 using ab239508 at 30 µg/ml in immunohistochemical analysis. DAB staining.



Western blot - Anti-IL-4 antibody [C1] (ab239508)

Anti-IL-4 antibody [C1] (ab239508) at 3 µg/ml + Recombinant human IL4 protein

Secondary

HRP-Linked Rabbit Anti-Mouse IgG at 1/5000 dilution

Predicted band size: 17 kDa

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