

Anti-IL-4 antibody [5B5] ab25033

Overview

Product name	Anti-IL-4 antibody [5B5]
Description	Mouse monoclonal [5B5] to IL-4
Host species	Mouse
Specificity	This product binds with high efficiency to natural and recombinant human IL4. It inhibits IL4 induced IgE production and IL4 induced T cell proliferation.
Tested applications	Suitable for: ELISA, IHC-Fr, Neutralising, ELISpot
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein corresponding to Human IL-4.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Constituents: PBS, 4.275% Trehalose
Purity	Ion Exchange Chromatography
Clonality	Monoclonal
Clone number	5B5
Isotype	IgG1

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab25033 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
ELISA		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
Neutralising		Use at an assay dependent concentration.
ELISpot		Use at an assay dependent concentration.

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.
Cellular localization	Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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