Product datasheet

Anti-IL4 antibody ab9622

Overview

Product name: Anti-IL4 antibody
Description: Rabbit polyclonal to IL4
Host species: Rabbit
Tested applications: Suitable for: WB, ELISA, Neutralising, IHC-P, Sandwich ELISA
Species reactivity: Reacts with: Human
Immunogen: Highly pure (>98%) recombinant hIL-4 (human Interleukin-4)
Positive control: Purchase matching WB positive control: Recombinant human IL4 protein

Properties

Form: Lyophilised: Reconstitute with 200μl of sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage buffer: PBS, pH 7.4, no preservative, sterile filtered
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab9622 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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1 Abreviews 16 References 1 Image
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.

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<tr>
<td>WB</td>
<td></td>
<td>Use at an assay dependent concentration. Detects a band of approximately 15 kDa. To detect hIL-4 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hIL-4 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions. Detects a band of approximately 15 kDa.</td>
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<tr>
<td>ELISA</td>
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<td>Use at an assay dependent concentration. To detect hIL-4 by direct ELISA (using 100µl/well antibody solution) a concentration of at least 0.5µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection.</td>
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<tr>
<td>Neutralising</td>
<td></td>
<td>Use at an assay dependent concentration. To yield one-half maximal inhibition [ND50] of the biological activity of hIL-4 (1.50 ng/ml), a concentration of 0.03 - 0.05 µg/ml of this antibody is required.</td>
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<td>IHC-P ⭐⭐⭐⭐⭐</td>
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<td>Use a concentration of 0.25 µg/ml.</td>
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<td>Sandwich ELISA</td>
<td></td>
<td>Use at an assay dependent concentration. Can be used as Detection antibody with recommended pair.</td>
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Images
ab9622 staining IL4 in human breast invasive ductal carcinoma section by Immunohistochemistry (Formalin/PFA fixed paraffin-embedded sections). Tissue underwent heat mediated antigen retrieval in sodium citrate buffer (pH 6.0). The primary antibody was used at 0.25 μg/ml and incubated with sample at 4°C overnight. A HRP-labeled polymer detection system was used with a DAB chromogen. Additional protein blocks were used in conjunction with secondary reagents.

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