

**IL-4 Rabbit mAb**  
Catalog # AP74836**Specification****IL-4 Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P05112</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>17492</b>

**IL-4 Rabbit mAb - Additional Information****Gene ID** 3565**Other Names**

IL4

**Dilution**

WB~~1/500-1/1000

**Format**

Liquid

**IL-4 Rabbit mAb - Protein Information****Name** IL4**Function**

Cytokine secreted primarily by mast cells, T-cells, eosinophils, and basophils that plays a role in regulating antibody production, hematopoiesis and inflammation, and the development of effector T-cell responses (PubMed:[1993171](http://www.uniprot.org/citations/1993171), PubMed:[3016727](http://www.uniprot.org/citations/3016727)). Induces the expression of class II MHC molecules on resting B-cells. Enhances both secretion and cell surface expression of IgE and IgG1 (PubMed:[1993171](http://www.uniprot.org/citations/1993171)). Regulates also the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes (PubMed:[2521231](http://www.uniprot.org/citations/2521231)). Positively regulates IL31RA expression in macrophages. Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4. In addition, plays a critical role in higher functions of the normal brain, such as memory and learning (By similarity). Upon binding to IL4, IL4R receptor dimerizes either with the common IL2R gamma chain/IL2RG to produce the type 1 signaling complex, located mainly on hematopoietic cells, or with the IL13RA1 to produce the type 2 complex, which is expressed also on nonhematopoietic cells (PubMed:[10219247](http://www.uniprot.org/citations/10219247), PubMed:[11526337](http://www.uniprot.org/citations/11526337), PubMed:[18243101](http://www.uniprot.org/citations/18243101)). Engagement

of both types of receptors initiates JAK3 and to a lower extent JAK1 phosphorylation leading to activation of the signal transducer and activator of transcription 6/STAT6 (PubMed:<a href="http://www.uniprot.org/citations/7721895" target="\_blank">7721895</a>).

#### Cellular Location

Secreted.

#### IL-4 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### IL-4 Rabbit mAb - Images

