

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

IL-4 Rabbit mAb - Product Information

Application	WB
Primary Accession	P05112
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	17492

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:<[a href="http://www.uniprot.org/citations/1993171" target="_blank">1993171](http://www.uniprot.org/citations/1993171), PubMed:<[a href="http://www.uniprot.org/citations/3016727" target="_blank">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:<[a href="http://www.uniprot.org/citations/1993171" target="_blank">1993171](http://www.uniprot.org/citations/1993171)). Also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes (PubMed:<[a href="http://www.uniprot.org/citations/2521231" target="_blank">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 also expressed on nonhematopoietic cells (PubMed:<[a href="http://www.uniprot.org/citations/10219247" target="_blank">10219247](http://www.uniprot.org/citations/10219247), PubMed:<[a href="http://www.uniprot.org/citations/11526337" target="_blank">11526337](http://www.uniprot.org/citations/11526337), PubMed:<[a href="http://www.uniprot.org/citations/18243101" target="_blank">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:7721895).

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

