

IL-15 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10860**Specification**

IL-15 Antibody - Product Information

Application	WB
Primary Accession	P48346
Other Accession	NP_032383
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	18593

IL-15 Antibody - Additional Information**Gene ID** 16168

Application & Usage	Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually.
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Other Names

IL-15, IL15, IL 15, Interluekin-15, Interluekin 15, interluekin

Target/Specificity

IL-15

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) Protein A purified rabbit anti-mouse IL-15 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

IL-15 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IL-15 Antibody - Protein Information

Name IL15

Function

Cytokine that plays a major role in the development of inflammatory and protective immune responses to microbial invaders and parasites by modulating immune cells of both the innate and adaptive immune systems (PubMed:8757333, PubMed:11466332). Stimulates the proliferation and activation of natural killer cells, T-cells and B- cells and promotes the secretion of several cytokines (PubMed:8757333). In monocytes, induces the production of IL8 and monocyte chemotactic protein 1/CCL2, two chemokines that attract neutrophils and monocytes respectively to sites of infection (By similarity). Unlike most cytokines, which are secreted in soluble form, IL15 is expressed in association with its high affinity IL15RA on the surface of IL15- producing cells and delivers signals to target cells that express IL2RB and IL2RG receptor subunits. Binding to its receptor triggers the phosphorylation of JAK1 and JAK3 and the recruitment and subsequent phosphorylation of signal transducer and activator of transcription- 3/STAT3 and STAT5. In mast cells, induces the rapid tyrosine phosphorylation of STAT6 and thereby controls mast cell survival and release of cytokines such as IL4 (PubMed:10882748, PubMed:19632221).

Cellular Location

Secreted.

IL-15 Antibody - 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-15 Antibody - Images

IL-15 Antibody - Background

IL-15 is a member of the four alpha-helical bundle family of cytokines with a molecular weight of 14-15 kDa. Its in vitro activity is very similar to IL-2, except that IL-15 utilizes the IL-15 receptor alpha subunit for binding. IL-15 plays an important role in the growth and differentiation of T and B lymphocytes, natural killer cells, macrophages, and monocytes. It also activates a number of important intracellular signaling molecules. This implies that IL-15 could be essential for the immune responses, allograft rejection, and the pathogenesis of autoimmune diseases.