

IL-15 Antibody

Rabbit Polyclonal Antibody Catalog # ABV10860

Specification

IL-15 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW

P48346 NP_032383 Mouse Rabbit Polyclonal Rabbit IgG 18593

WB

IL-15 Antibody - Additional Information

Gene ID 16168

Application & Usage

Western blot analysis (0.5-4 μ g/ml). However, the optimal conditions should be determined individually.

Other Names IL-15, IL15, IL 15, Interluekin-15, Interluekin 15, interluekin

Target/Specificity IL-15

Antibody Form Liquid

Appearance Colorless liquid

Formulation 100 μ g (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 II15

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: 11466332, PubMed:8757333). 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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- <u>Flow Cytomety</u>
- <u>Cell Culture</u>

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, allograpt rejection, and the pathogenesis of autoimmune diseases.