

**Anti-IL-15 Antibody**  
**Catalog # ABO11935****Specification****Anti-IL-15 Antibody - Product Information****Application****WB, E****Primary Accession**[\*\*P40933\*\*](#)**Host****Rabbit****Reactivity****Human****Clonality****Polyclonal****Format****Lyophilized****Description**

Rabbit IgG polyclonal antibody for Interleukin-15(IL15) detection. Tested with WB, ELISA in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-IL-15 Antibody - Additional Information****Gene ID** 3600**Other Names**

Interleukin-15, IL-15, IL15

**Calculated MW**

18086 MW KDa

**Application Details**

ELISA , 0.1-0.5 µg/ml, Human, -&lt;br&gt;Western blot, 0.1-0.5 µg/ml, Human&lt;br&gt;

**Subcellular Localization**

Isoform IL15-S48AA: Secreted.

**Tissue Specificity**

Most abundant in placenta and skeletal muscle. It is also detected in the heart, lung, liver and kidney. IL15- S21AA is preferentially expressed in tissues such as testis and thymus.

**Protein Name**

Interleukin-15

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E.coli-derived human IL-15 recombinant protein (Position: N49-S162). Human IL-15 shares 70% amino acid (aa) sequence identity with both mouse and rat IL-15.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r° Constitution, at 4°C for one month. It° Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the IL-15/IL-21 family.

**Anti-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:<a href="http://www.uniprot.org/citations/15123770" target="\_blank">15123770</a>). Stimulates the proliferation of natural killer cells, T-cells and B-cells and promotes the secretion of several cytokines (PubMed:<a href="http://www.uniprot.org/citations/8178155" target="\_blank">8178155</a>, PubMed:<a href="http://www.uniprot.org/citations/9326248" target="\_blank">9326248</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/9326248" target="\_blank">9326248</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/10233906" target="\_blank">10233906</a>, PubMed:<a href="http://www.uniprot.org/citations/23104097" target="\_blank">23104097</a>, PubMed:<a href="http://www.uniprot.org/citations/8026467" target="\_blank">8026467</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/7568001" target="\_blank">7568001</a>). In mast cells, induces the rapid tyrosine phosphorylation of STAT6 and thereby controls mast cell survival and release of cytokines such as IL4 (By similarity).

**Cellular Location**

[Isoform IL15-S48AA]: Secreted.

**Tissue Location**

Most abundant in placenta and skeletal muscle. It is also detected in the heart, lung, liver and kidney. IL15-S21AA is preferentially expressed in tissues such as testis and thymus

**Anti-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](#)

#### Anti-IL-15 Antibody - Images



97KD --  
58KD --  
40KD --  
29KD --  
20KD --  
14KD --

Anti- IL-15 antibody, ABO11935, Western blottingAll lanes: Anti IL-15 (ABO11935) at 0.5ug/mlWB: Recombinant Human IL-15 Protein 0.5ngPredicted bind size: 15KDObserved bind size: 15KD

#### Anti-IL-15 Antibody - Background

Interleukin (IL)-15 is a cytokine with the ability to stimulate the proliferation activity of Th1 and/or Th2 lymphocytes. This gene is mapped to human chromosome 4q31 by fluorescence in situ hybridization. IL-15 is a novel cytokine whose effects on T-cell activation and proliferation are similar to those of interleukin-2 (IL-2), presumably because IL-15 utilizes the beta and gamma chains of the IL-2 receptor. IL-15 can play a role in the initiation and outcome of acute and chronic rejection. Anti-IL-15 therapy in combination with classic immunosuppression therapy might be beneficial in the prevention of acute, and especially chronic, allograft rejection.