

Anti-IL-15 Antibody

Rabbit polyclonal antibody to IL-15 Catalog # AP60878

Specification

Anti-IL-15 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Calculated MW WB <u>P40933</u> <u>P48346</u> Human, Mouse, Rat Rabbit Polyclonal 18086

Anti-IL-15 Antibody - Additional Information

Gene ID 3600

Other Names Interleukin-15; IL-15

Target/Specificity Recognizes endogenous levels of IL-15 protein.

Dilution WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

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:15123770). Stimulates the proliferation of natural killer cells, T-cells and B-cells and promotes the secretion of several cytokines (PubMed:8178155, PubMed:9326248). 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). 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:10233906, PubMed:23104097, PubMed:8026467). 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:7568001). 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
- <u>Blocking Peptides</u>
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-IL-15 Antibody - Images



Western blot analysis of IL-15 expression in HepG2 (A), HEK293T (B), AML12 (C), H9C2 (D) whole cell lysates.

Anti-IL-15 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IL-15. The exact sequence is proprietary.