

## IL-15 (aa70-82) Antibody (internal region)

Peptide-affinity purified goat antibody Catalog # AF3864a

## **Specification**

## IL-15 (aa70-82) Antibody (internal region) - Product Information

Application WB
Primary Accession P40933

Other Accession NP 000576.1, NP 751915.1, 3600

Reactivity
Host
Clonality
Concentration
Isotype
Human
Goat
Polyclonal
0.5 mg/ml
IgG

Isotype IgG
Calculated MW 18086

# IL-15 (aa70-82) Antibody (internal region) - Additional Information

#### **Gene ID 3600**

### **Other Names**

Interleukin-15, IL-15, IL15

#### **Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

IL-15 (aa70-82) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

## IL-15 (aa70-82) Antibody (internal region) - 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/8026467" target="\_blank">8026467</a>, PubMed:<a href="http://www.uniprot.org/citations/23104097" target="\_blank">23104097</a>, PubMed:<a href="http://www.uniprot.org/citations/10233906" target="\_blank">10233906</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**

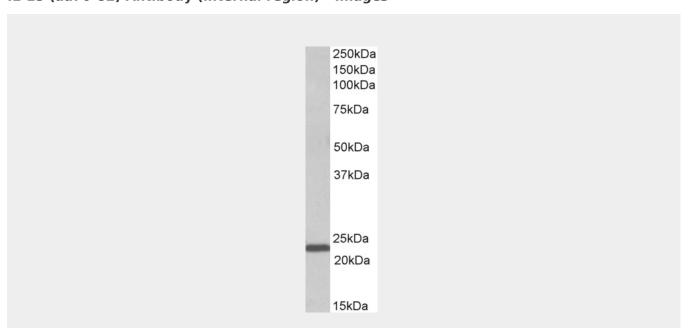
Most abundant in placenta and skeletal muscle. It is also detected in the heart, lung, liver and kidney. IL15-S21AA is preferentially expressed in tissues such as testis and thymus

### IL-15 (aa70-82) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

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

# IL-15 (aa70-82) Antibody (internal region) - Images



AF3864a (1  $\mu$ g/ml) staining of Human Bone Marrow lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



# IL-15 (aa70-82) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP\_000576.1; NP\_751915.1).

# IL-15 (aa70-82) Antibody (internal region) - References

B cell-derived IL-15 enhances CD8 T cell cytotoxicity and is increased in multiple sclerosis patients. Schneider R, Mohebiany AN, Ifergan I, Beauseigle D, Duquette P, Prat A, Arbour N. J Immunol. 2011 Oct 15;187(8):4119-28. PMID: 21911607