

**IL-3 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10849****Specification**

---

**IL-3 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P08700</a>
Other Accession	<a href="#">AAA59146</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17233

**IL-3 Antibody - Additional Information****Gene ID** 3562

Application & Usage	Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Recombinant human IL-3 can be used as a positive control
---------------------	--

**Other Names**

IL-3, IL3, IL 3, Interleukin-3, Interleukin 3, interleukin

**Target/Specificity**

IL-3

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-IL-3 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

IL-3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## IL-3 Antibody - Protein Information

**Name** IL3 ([HGNC:6011](#))

### Function

Cytokine secreted predominantly by activated T-lymphocytes as well as mast cells and osteoblastic cells that controls the production and differentiation of hematopoietic progenitor cells into lineage- restricted cells (PubMed:<a href="http://www.uniprot.org/citations/2556442" target="\_blank">2556442</a>). Stimulates also mature basophils, eosinophils, and monocytes to become functionally activated (PubMed:<a href="http://www.uniprot.org/citations/10779277" target="\_blank">10779277</a>, PubMed:<a href="http://www.uniprot.org/citations/32889153" target="\_blank">32889153</a>). In addition, plays an important role in neural cell proliferation and survival (PubMed:<a href="http://www.uniprot.org/citations/23226269" target="\_blank">23226269</a>). Participates as well in bone homeostasis and inhibits osteoclast differentiation by preventing NF-kappa-B nuclear translocation and activation (PubMed:<a href="http://www.uniprot.org/citations/12816992" target="\_blank">12816992</a>). Mechanistically, exerts its biological effects through a receptor composed of IL3RA subunit and a signal transducing subunit IL3RB (PubMed:<a href="http://www.uniprot.org/citations/29374162" target="\_blank">29374162</a>). Receptor stimulation results in the rapid activation of JAK2 kinase activity leading to STAT5-mediated transcriptional program (By similarity). Alternatively, contributes to cell survival under oxidative stress in non- hematopoietic systems by activating pathways mediated by PI3K/AKT and ERK (PubMed:<a href="http://www.uniprot.org/citations/27862234" target="\_blank">27862234</a>).

### Cellular Location

Secreted.

### Tissue Location

Activated T-cells, mast cells, natural killer cells

## IL-3 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-3 Antibody - Images

## IL-3 Antibody - Background

IL-3 is a species-specific colony-stimulating factor that stimulates colony formation of megakaryocytes, neutrophils, and macrophages from bone marrow cultures. Recombinant human IL-3 is a 15.0 kDa protein containing 133 amino acid residues.