

**Anti-IL-3 Antibody**  
**Catalog # ABO11057****Specification**

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**Anti-IL-3 Antibody - Product Information**

Application	<b>WB, IHC-P</b>
Primary Accession	<a href="#">P08700</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**Description**

Rabbit IgG polyclonal antibody for Interleukin-3(IL3) detection. Tested with WB, IHC-P in Human.

**Reconstitution**

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

**Anti-IL-3 Antibody - Additional Information**

**Gene ID** 3562

**Other Names**

Interleukin-3, IL-3, Hematopoietic growth factor, Mast cell growth factor, MCGF, Multipotential colony-stimulating factor, P-cell-stimulating factor, IL3

**Calculated MW**

17233 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted.

**Tissue Specificity**

Activated T-cells, mast cells, natural killer cells.

**Protein Name**

Interleukin-3(IL-3)

**Contents**

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

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human IL-3(119-140aa, KDGDWNEFRRKLTFLKTLENA).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, 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-3 family.

**Anti-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: [2556442](http://www.uniprot.org/citations/2556442)). Also stimulates mature basophils, eosinophils, and monocytes to become functionally activated (PubMed: [10779277](http://www.uniprot.org/citations/10779277), PubMed: [32889153](http://www.uniprot.org/citations/32889153)). In addition, plays an important role in neural cell proliferation and survival (PubMed: [23226269](http://www.uniprot.org/citations/23226269)). Participates as well in bone homeostasis and inhibits osteoclast differentiation by preventing NF-kappa-B nuclear translocation and activation (PubMed: [12816992](http://www.uniprot.org/citations/12816992)). Mechanistically, exerts its biological effects through a receptor composed of IL3RA subunit and a signal transducing subunit IL3RB (PubMed: [29374162](http://www.uniprot.org/citations/29374162)). 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: [27862234](http://www.uniprot.org/citations/27862234)).

**Cellular Location**

Secreted.

**Tissue Location**

Activated T-cells, mast cells, natural killer cells

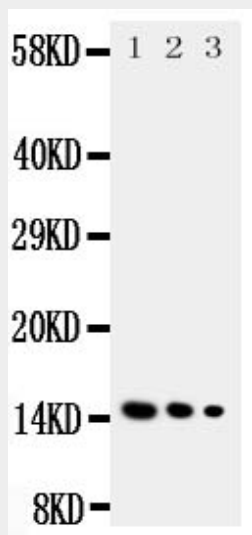
**Anti-IL-3 Antibody - Protocols**

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

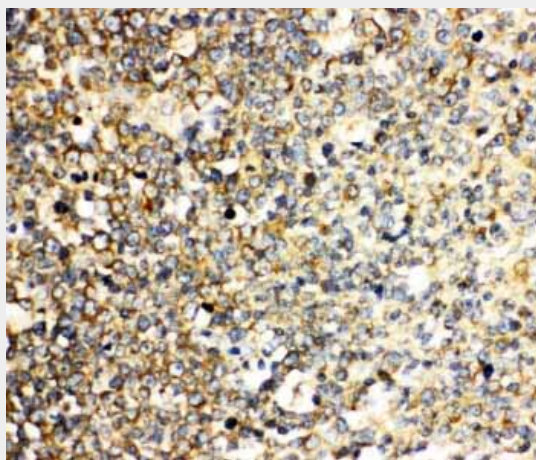
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-IL-3 Antibody - Images



Anti-IL-3 antibody, ABO11057, Western blotting All lanes: Anti IL-3 (ABO11057) at 0.5ug/ml Lane 1: Recombinant Human IL-3 Protein 10ng Lane 2: Recombinant Human IL-3 Protein 5ng Lane 3: Recombinant Human IL-3 Protein 2.5ng Predicted bind size: 15KD Observed bind size: 15KD



Anti-IL-3 antibody, ABO11057, IHC(P) IHC(P): Human Tonsil Tissue

### Anti-IL-3 Antibody - Background

The gene IL-3 encodes interleukin 3, a hematopoietic colony-stimulating factor(CSF) that is capable of supporting the proliferation of a broad range of hematopoietic cell types. Interleukin-3(IL-3), a protein of 140 amino acids, is chemically synthesized by means of an automated peptide synthesizer and is shown to have the biological activities attributed to native IL-3. The cDNA sequence for murine interleukin-3, one of the colony stimulating factors that regulate haematopoiesis, codes for a polypeptide of 166 amino acids including a putative signal peptide. The mouse IL 3 gene is located on chromosome 11. The human gene encoding IL 3 is tandemly arrayed on the long arm of chromosome 5.5 The standard product used in this kit is recombinant human IL-3, consisting of 133 amino acids with the molecular mass of 15KDa.