

IL-3 Antibody

Rabbit Polyclonal Antibody Catalog # ABV10849

Specification

IL-3 Antibody - Product Information

Application WB **Primary Accession** P08700 Other Accession **AAA59146** 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, Interluekin-3, Interluekin 3, interluekin

Target/Specificity

IL-3

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

 $100 \mu g$ (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 (<u>HGNC:6011</u>)

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). Also stimulates mature basophils, eosinophils, and monocytes to become functionally activated (PubMed: 10779277, PubMed:32889153). In addition, plays an important role in neural cell proliferation and survival (PubMed: 23226269). Participates as well in bone homeostasis and inhibits osteoclast differentiation by preventing NF-kappa-B nuclear translocation and activation (PubMed:12816992). Mechanistically, exerts its biological effects through a receptor composed of IL3RA subunit and a signal transducing subunit IL3RB (PubMed: 29374162). Receptor stimulation results in the rapid activation of IAK2 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).

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
- <u>Immunoprecipitation</u>
- Flow Cytomety
- 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.