



Anti-Human IL-3

20170419BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P33
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human IL 3 (human Interleukin-3). Anti-human IL 3 specific antibody was purified by affinity chromatography employing immobilized human IL 3 matrix.

Target Background

Synonyms (Target):	IL3; IL-3; MCGF; MULTI-CSF
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IL-3 is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. Produced by T cells, mast cells and eosinophils, IL-3 enhances thrombopoieses, phagocytosis, and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL-3 may have additional immunoregulatory roles. Many of the IL-3 activities depend upon co-stimulation with other cytokines. IL-3 is species-specific, variably glycosylated cytokine. Recombinant human IL-3 is a 15.0 kDa globular protein containing 133 amino acid residues.

Database References Target

Protein RefSeq:	NP_000579
Uniprot ID:	P08700
mRNA RefSeq:	NM_000588

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	recombinant human IL-3
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of human IL-3 (3 ng/ml), a concentration of 0.06 - 0.1 mg/ml of this antibody is required.

Sandwich ELISA: To detect human IL-3 by direct ELISA (using 100µl/well antibody solution) a concentration of at least 0.5-2 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 2-4 ng/ml of recombinant human IL-3.

Western Blot: To detect human IL-3 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant human IL-3 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!