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Product datasheet for PP1025P2

IL3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, WB
Recommended Dilution:	**Neutralization:** To yield one-half maximal inhibition [ND50] of the biological activity of hIL-3 (3.0 ng/ml), a concentration of 0.06 - 0.1 µg/ml of this antibody is required. **ELISA:** To detect hIL-3 by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant hIL-3. **Western Blot:** To detect hIL-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 hIL-3 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) E.coli derived 15.0 kDa recombinant hIL-3.
Specificity:	Specific for human IL-3.
Formulation:	PBS, pH 7.2 without preservatives. State: Aff - Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 3

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Database Link: Entrez Gene 3562 Human
P08700

Background: The pleiotropic IL3 (Interleukin 3) is a 15kDa cytokine that is primarily secreted by activated T lymphocytes and stimulates the proliferation and differentiation of hematopoietic cells. IL3 acts in hematopoiesis by controlling the production, differentiation, and function of two related white cell populations of the blood, the granulocytes and the monocytes/macrophages. It induces granulocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils and megakaryocytes and is expressed by activated T cells, mast cells, and natural killer cells. IL3 not only supports growth of both pluripotent stem cells and the more differentiated committed progenitors, but it also stimulates the functional activity of some fully differentiated cells. IL3 has also been shown to protect mast cells from undergoing apoptosis.

Synonyms: IL-3, Multipotential colony-stimulating factor, Hematopoietic growth factor, P-cell-stimulating factor, MCGF

Note: Centrifuge vial prior to opening!