

Ultra-LEAF™ Purified anti-human IL-3 Antibody

Catalog# / Size	500506 / 500 µg
Clone	BVD8-3G11
Regulatory Status	RUO
Other Names	Interleukin-3, Burst promoting activity, Eosinophil colony stimulating factor (Eo-CSF), Hematopoietic cell growth factor (HCGF), Mast (MGF/MCGF), Multi-colony stimulating (Multi-CSF), P cell stimulating activity (PCSA), Thy1 inducing factor
Isotype	Rat IgG1, κ
Description	IL-3 is a highly species-specific pleiotropic factor produced primarily by activated T cells though also by mast cells, keratinocytes, and astrocytes, which stimulates colony formation of megakaryocytes, neutrophils, and macrophages from bone marrow cultures. The BVD8-3G11 antibody can neutralize the bioactivity of natural or recombinant IL-3.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Yeast-expressed, recombinant human IL-3
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.01 EU/µg of the protein (<0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	Block - Quality tested IP, WB - Reported in the literature, not verified in house
Recommended Usage	Ultra-LEAF™ Purified anti-human IL-3 antibody inhibits the proliferation of TF-1 erythroleukemic cells induced by Recombinant Human IL-3 (carrier-free) (7 ng/ml) in a dose dependent manner, with an ED ₅₀ = 0.02 – 0.1 µg/ml. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	ELISA¹⁻⁴ or ELISPOT Capture: The purified BVD8-3G11 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated BVD3-1F9 antibody (Cat. No. 500604) as the detecting antibody. Additional reported applications include: Western blotting ⁴ and immunoprecipitation ⁴ .
Application References	<ol style="list-style-type: none"> 1. Abrams JS, <i>et al.</i> 1992. <i>Immunol. Rev.</i> 127:5. (ELISA) 2. Abrams JS <i>et al.</i> 1994. Eosinophil-active cytokines in human disease: development and use of monoclonal antibodies to il-3, il-5, and GM-CSF. In <i>Eosinophils in Allergy and Inflammation</i>. Gleich GJ and Kay AB, eds. Marcel Dekker, Inc. New York, NY. p. 133. (ELISA) 3. Abrams J. 1995. <i>Curr. Prot. Immunol.</i> 6.20. (ELISA) 4. Kaushansky K. 1992. <i>J. Clin. Invest.</i> 90:1879. (ELISA, IP, WB) 5. Mahanty S, <i>et al.</i> 1992. <i>J. Immunol.</i> 148:3567.
RRID	AB_2616770 (BioLegend Cat. No. 500506)

(PubMed link indicates BioLegend citation)

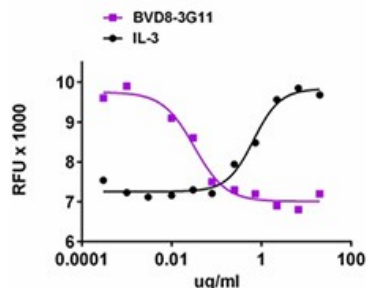
Antigen Details

Structure	Cytokine; 14-30 kD (Mammalian)
Bioactivity	Proliferation/differentiation of almost all types of hematopoietic progenitors into granulocytes, macrophages, erythroid cells, megakaryocytes, mast cell colonies; induces expression of 20- α -steroid dehydrogenase, histidine, ornithine decarboxylase.
Cell Sources	Activated T cells, mast cells, eosinophils, keratinocytes, NK cells, endothelial cells.
Cell Targets	Erythroid cells, megakaryocytes, neutrophils, eosinophils, basophils, mast cells, monocytic lineages.
Receptors	IL-3R, α subunit (CD123), common β subunit (CDw131).
Biology Area	Cell Biology, Stem Cells
Molecular Family	Growth Factors, Cytokines/Chemokines
Antigen References	1. Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press San Diego. 2. Frendl G. 1992. <i>Int. J. Immunopharmacol.</i> 14:421. 3. Ihle J. 1992. <i>Chem. Immunology</i> 51:65.
Regulation	Upregulated by T cell stimulation; downregulated by glucocorticoids.
Gene ID	3562

Other Formats

Purified anti-human IL-3, Ultra-LEAF™ Purified anti-human IL-3

Product Data



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