

Product datasheet for **AM08179PU-N**

IL3 Rat Monoclonal Antibody [Clone ID: MP2-8F8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MP2-8F8
Applications:	ELISA, FC, IF
Recommended Dilution:	ELISA: Useful as a Capture antibody in a Sandwich ELISA for quantifying Mouse IL-3 protein levels. (Ref.1-5) This antibody should be paired with purified recombinant mouse IL-3 as the standard. Immunofluorescence/Flow Cytometry: This antibody is useful for intracytoplasmic staining and flow cytometric analysis to identify and enumerate IL-3-positive cells within mixed cell populations. Recombinant mouse IL-3 (Cat#AM08179PU-N) should be used as a Specificity Control.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	COS-expressed recombinant mouse IL-3.
Specificity:	This antibody is specific to Mouse Interleukin-3/IL-3. (Ref.1-3)
Formulation:	100 mM Borate buffered saline, pH 8.2 without preservatives or amine-containing buffer salts. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 3
Database Link:	Entrez Gene 16187 Mouse P01586



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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