



Rat Anti-Mouse IL-3 Monoclonal antibody, clone MP2-8F8 (CABT-L4516)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The MP2-8F8 monoclonal antibody reacts with mouse IL-3, a pleiotropic cytokine produced primarily by activated T cells but also by activated mast cells, keratinocytes and neurons/astrocytes. IL-3 is highly species-specific, mature human and mouse IL-3 share only 29% sequence identity and human IL-3 does not show activity on mouse cells. IL-3 can stimulate the proliferation and differentiation of megakaryocytes, neutrophils, and macrophages from bone marrow cultures. Additionally, IL-3 also affects the functional activity of mature mast cells, basophils, eosinophils and macrophages. The MP2-8F8 antibody has been reported to neutralize the bioactivity of natural or recombinant IL-3 as well as stimulate basophil proliferation when administered as a complex with IL-3.

Target	Mouse IL-3
Immunogen	COS-expressed, recombinant mouse IL-3
Isotype	IgG1
Source/Host	Rat
Species Reactivity	Mouse
Clone	MP2-8F8
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo IL-3 neutralization, in vitro IL-3 neutralization, in vivo IL-3 receptor stimulation (as a complex with IL-3), ELISA, FC

Molecular Weight	150 kDa
Format	0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	interleukin 3
Keywords	IL3;interleukin 3;BPA;PSF;HCGF;Il-3;MCGF;Csfmu;interleukin-3;mast cell growth factor;P-cell-stimulating factor;hematopoietic growth factor;multipotential colony-stimulating factor;

GENE INFORMATION

Official Symbol	interleukin 3
Synonyms	IL3; interleukin 3; BPA; PSF; HCGF; Il-3; MCGF; Csfmu; interleukin-3; mast cell growth factor; P-cell-stimulating factor; hematopoietic growth factor; multipotential colony-stimulating factor;
References	Li, Y., et al. (2015). "The STAT5-GATA2 pathway is critical in basophil and mast cell differentiation and maintenance." J Immunol 194(9): 4328-4338. PubMed;