



Rat Anti-Human IL-4 Monoclonal antibody, clone MP4-25D2 (CABT-L4489)

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

PRODUCT INFORMATION

Product Overview

The MP4-25D2 monoclonal antibody reacts with human IL-4 (interleukin-4) a multifunctional 14 kDa cytokine. IL-4 is expressed primarily by activated Th2 cells and NK cells, and at lower levels by mast cells, and basophils. IL-4 signals through the IL-4R α . Upon receptor binding IL-4 stimulates activated B and T lymphocyte proliferation, and the differentiation of B cells into plasma cells. It also induces B cell class switching to IgE, and up-regulates MHC class II production while decreasing the production of Th1 cells, macrophages, IFNy, and dendritic cell IL-12. Like other Th2 associated cytokines, IL-4 is involved in the airway inflammation observed in the lungs of patients with allergic asthma. The MP4-25D2 monoclonal antibody has been shown to neutralize the bioactivity of natural or recombinant human IL-4.

Target	Human IL-4
Immunogen	Recombinant human IL-4 expressing CHO cells
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Human
Clone	MP4-25D2
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vitro IL-4 neutralization, 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	Th2-type cytokine; may be involved in inflammatory response in eosinophils [RGD, Feb 2006]
Keywords	IL4;interleukin 4;Il4e12;interleukin-4;IL-4;BSF-1;B-cell growth factor 1;B-cell stimulatory factor 1;lymphocyte stimulatory factor 1;B-cell IGG differentiation factor;

GENE INFORMATION

Official Symbol	interleukin 4
Synonyms	IL4; interleukin 4; Il4e12; interleukin-4; IL-4; BSF-1; B-cell growth factor 1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1; B-cell IGG differentiation factor;
References	Hong, M., et al. (2015). "Trained immunity in newborn infants of HBV-infected mothers." <i>Nat Commun</i> 6: 6588. PubMed;