



Rat Anti-Mouse IL-4 Monoclonal antibody, clone BVD6-24G2 (CABT-L4469)

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

PRODUCT INFORMATION

Product Overview

The BVD6-24G2 monoclonal antibody reacts with mouse 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, IFN γ , 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 BVD6-24G2 antibody cannot neutralize the bioactivity of natural or recombinant IL-4.

Target	Mouse IL-4
Immunogen	Recombinant mouse IL-4
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	BVD6-24G2
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	ELISA, ELISPOT, 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	Chennupati, V., et al. (2016). "Notch Signaling Regulates the Homeostasis of Tissue-Restricted Innate-like T Cells." J Immunol 197(3): 771-782. PubMed;