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Anti-Mouse IL-4 (Clone 11B11) Purified Monoclonal Antibody

Product Information

Product No.:	I-1043
Clone:	11B11
RRID:	AB_2830374
Isotype:	Rat IgG1 κ
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone 11B11 recognizes an epitope on mouse IL-4.

Antigen Distribution:

IL-4 is secreted by Th2 cells, NKT cells, mast cells, eosinophils, and basophils.

Background:

IL-4 antibody, 11B11, recognizes mouse IL-4, also known as B-cell differentiation factor (BCDF) and B-cell stimulatory factor (BSF1). IL-4 is a pleiotropic 20 kDa cytokine secreted by T helper 2 cells (Th2) cells, natural killer T (NKT) cells, mast cells, eosinophils, and basophils^{1,2}. IL-4 signaling through the IL-4 receptor alpha chain (IL-4Ra) induces the differentiation of naive T cells to Th2 cells^{3,4} and stimulates B cell differentiation, proliferation, and class switching to IgG1 and IgE isotypes⁵. In addition, IL-4 is implicated in normal wound healing^{6,7} and airway inflammation in patients with asthma⁸.

Known Reactivity Species:

Mouse

Format: Purified

Immunogen:

Partially Purified Native Mouse IL-4

Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

Storage and Stability

This purified antibody is stable when stored at 2-8°C. Do not freeze.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

ELISAThis antibody is useful as the capture antibody in a sandwich ELISA. The suggested coating concentration is 0.5-2.0 µg/ml. Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

ICC IHC IP Country of Origin USA References 1. Yoshimoto T & Paul WE. (1994) J Exp Med. 179(4):1285–95

Products are for research use only. Not for use in diagnostic or therapeutic procedures.