

Product datasheet

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ARG23984 anti-IL4 antibody [SQab20176] (PF488P)

Package: 50 μg Store at: -20°C

Summary

Product Description PF488P-conjugated Rat Monoclonal antibody [SQab20176] recognizes IL4

Tested Reactivity Hu, NHuPrm

Tested Application FACS

Specificity This antibody cross-reacts with IL4 from non-human primates.

Host Rat

Clonality Monoclonal
Clone SQab20176

Isotype IgG1
Target Name IL4

Antigen Species Human

Immunogen Recombinant Human IL4.

Conjugation PF488P

Conjugation Note PF488P dye is excited by the blue laser (488 nm). The excitation max is 490 nm and the emission max is

516 nm. (Note: PF488P dye is similar as FITC, FITC excited by the blue laser (488 nm). The excitation

max is 490 nm and the emission max is 525 nm)

Alternate Names BSF-1; IL-4; B-cell stimulatory factor 1; BCGF1; Lymphocyte stimulatory factor 1; BCGF-1; Interleukin-4;

Pitrakinra; Binetrakin; BSF1

Application Instructions

Application table	Application	Dilution
	FACS	5 μl/10^6 cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Calculated Mw	17 kDa	

Properties

Form Liquid

Purification Purification with Protein G.

Purification Note 0.2 µm filter sterilized.

Buffer PBS, 0.09% Sodium azide and 0.2% BSA.

Preservative 0.09% Sodium azide

Stabilizer 0.2% BSA

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol IL4

Gene Full Name interleukin 4

Background The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is

a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by

RefSeq, Jul 2008]

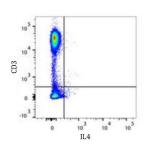
Function Participates in at least several B-cell activation processes as well as of other cell types

(PubMed:3016727). It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Positively regulates IL31RA expression in macrophages (By similarity). Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4 (By

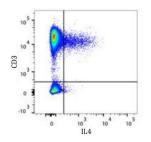
in denoratic cells by interfering with mTORC1 signaling and through th similarity). [UniProt]

Cellular Localization Secreted. [UniProt]

Images



Human PBMCs control



Human PBMCs + PMA/ionomycin and Brefeldin A

ARG23984 anti-IL4 antibody [SQab20176] (PF488P) FACS image

Flow Cytometry: Human PBMCs were stimulated for 16 hours in the presence of PMA/ionomycin and Brefeldin A. Cells were stained with anti-CD3 antibody, fixed and permeabilized using 4% paraformaldehyde and saponin, and further stained with ARG23984 anti-IL4 antibody [SQab20176] (PF488P) (right panel). Nonstimulated cells shown as reference (left panel).