

IL-4 (D19A10) Rabbit mAb (PE Conjugate)

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H	Endogenous	Rabbit IgG	#P05112	3565

Product Usage Information**Application**

Flow Cytometry (Fixed/Permeabilized)

Dilution

1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.

Specificity/Sensitivity

IL-4 (D19A10) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total IL-4 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human IL-4 protein.

Description

This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated IL-4 (D19A10) Rabbit mAb #12227.

Background

Interleukin-4 (IL-4) is a cytokine secreted by activated T cells, basophils, and mast cells (1,2). While it contributes to many immunomodulatory responses, it is mainly recognized as the cytokine responsible for eliciting differentiation of naive T cells into Th2 lineage cells that are defined by their secretion of IL-4, IL-5, and IL-10 (3). In addition, IL-4 contributes to immunoglobulin class switching by inducing the production of IgE from B cells (4,5). IL-4 acts through the IL-4 receptor, leading to tyrosine phosphorylation and activation of the Stat6 transcription factor (6).

Background References

1. Yokota, T. et al. (1986) *Proc Natl Acad Sci USA* 83, 5894-8.
2. Grabstein, K. et al. (1986) *J Exp Med* 163, 1405-14.
3. Kopf, M. et al. (1993) *Nature* 362, 245-8.
4. Kotowicz, K. and Callard, R.E. (1993) *Eur J Immunol* 23, 2250-6.
5. Thyphronitis, G. et al. (1989) *Proc Natl Acad Sci USA* 86, 5580-4.
6. Hou, J. et al. (1994) *Science* 265, 1701-6.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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