IL-4 (D19A10) Rabbit mAb (Alexa Fluor® 647 Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P05112	Entrez-Gene Id: 3565
Product Usage Information		Application Flow Cytometry (Fixed/Pe	ermeabilized)		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. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>			
Specificity/Sensitivity		IL-4 (D19A10) Rabbit mAb (Alexa Fluor [®] 647 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 Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This 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		 Yokota, T. et al. (1986) Proc Natl Acad Sci USA 83, 5894-8. Grabstein, K. et al. (1986) J Exp Med 163, 1405-14. Kopf, M. et al. (1993) Nature 362, 245-8. Kotowicz, K. and Callard, R.E. (1993) Eur J Immunol 23, 2250-6. Thyphronitis, G. et al. (1989) Proc Natl Acad Sci USA 86, 5580-4. 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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