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IL-4 (D19A10) Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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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/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 antibody. Protect from light. Do not freeze.					
Specificity/Sensitiv	vity	IL-4 (D19A10) Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of total IL-4 protein.					
Source / Purificatio	on	Monoclonal antibody is produced by immunizing animals with recombinant human IL-4 protein.					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 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 Refere	ences	1. Yokota, T. et al. (1986) <i>Proc Natl Acad Sci USA</i> 83, 5894-8. 2. Grabstein, K. et al. (1986) <i>J Exp Med</i> 163, 1405-14. 3. Kopf, M. et al. (1993) <i>Nature</i> 362, 245-8. 4. Kotowicz, K. and Callard, R.E. (1993) <i>Eur J Immunol</i> 23, 2250-6. 5. Thyphronitis, G. et al. (1989) <i>Proc Natl Acad Sci USA</i> 86, 5580-4. 6. Hou, J. et al. (1994) <i>Science</i> 265, 1701-6.					
Species Reactivity		Species reactivity is dete	rmined by testing in at lea	ast one approved ap	plication (e.g., western blot).		
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity Ke	ey .	H: Human					
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