

#12227 Store at -20°C

IL-4 (D19A10) Rabbit mAb



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

Applications: WB, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P05112	Entrez-Gene Id: 3565
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Product Usage Information	Application Western Blotting Flow Cytometry (Fixed/Permeabilized)	Dilution 1:1000 1:800
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	IL-4 (D19A10) Rabbit mAb recognizes endogenous levels of total IL-4 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant human IL-4 protein.	
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) <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 determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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