IL-4 (D19A10) Rabbit mAb

✓ 100 µl (10 western blots)



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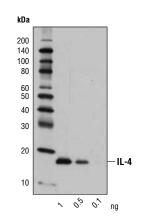
Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype	
W, F Endogenous	Н	17 kDa	Rabbit IgG**	

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

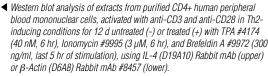
Specificity/Sensitivity: IL-4 (D19A10) Rabbit mAb recognizes endogenous levels of total IL-4 protein.

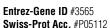
Source/Purification: Monoclonal antibody is produced by immunizing animals with recombinant human IL-4 protein.

> kDa 200



Western blot analysis of recombinant Human Interleukin-4 (hlL-4) #8919 using IL-4 (D19A10) Rabbit mAb.





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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

1:1000 Western blotting Flow Cytometry

For product specific protocols please see the web page for this product at www.cellsignal.com.

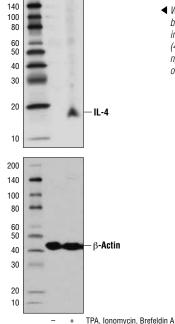
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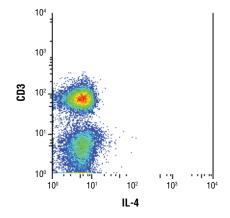
Background References:

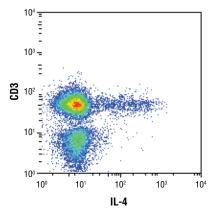
- (1) Yokota, T. et al. (1986) Proc Natl Acad Sci USA 83, 5894-8.
- (2) Grabstein, K. et al. (1986) J Exp Med 163, 1405-14.
- (3) Kopf, M. et al. (1993) Nature 362, 245-8.
- (4) Kotowicz, K. and Callard, R.E. (1993) Eur J Immunol 23, 2250-6.
- (5) Thyphronitis, G. et al. (1989) Proc Natl Acad Sci USA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

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1%

Tween-20 at 4°C with gentle shaking, overnight.







Flow cytometric analysis of human peripheral blood mononuclear cells, untreated (left) or treated (right) with TPA #4174 (40 nM, 6 hr), lonomycin #9995 (2 μM, 6 hr) and Brefeldin A #9972 (1 μg/ml, last 5 hr of stimulation), using a CD3 antibody and IL-4 (D19A10) Rabbit mAb. Anti-rabbit IgG (H+L), F(ab')2 Fragment (Alexa Fluor® 647 Conjugate) #4414 was used as a secondary antibody. Analysis was performed on cells in the lymphocyte gate.

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Applications Kev: W-Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F-Flow cytometry E-P-ELISA-Peptide Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk-monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All-all species expected Species enclosed in parentheses are predicted to react based on 100% homology.