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IL-17A (D1X7L) Rabbit mAb (PE Conjugate)



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

Applications: FC-FP	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q62386	Entrez-Gene Id: 16171
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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 / Sensitivity	IL-17A (D1X7L) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total mouse IL-17A protein.	
Species predicted to react based on 100% sequence homology:	Rat	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val49 of mouse IL-17A protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in mouse cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated IL-17A (D1X7L) Rabbit mAb #13838.	
Background	The IL-17 family of cytokines consists of IL-17A-F, and their receptors include IL-17RA-RE (1). IL-17 cytokines are produced by a variety of cell types including the Th17 subset of CD4+ T cells, as well as subsets of γδ T cells, NK cells, and NKT cells (2). IL-17A and IL-17F, the most well-studied of the IL-17 cytokines, contribute to fungal and bacterial immunity by inducing expression of proinflammatory cytokines, chemokines, and antimicrobial peptides (2). In addition, IL-17A contributes to the pathogenesis of several autoimmune diseases (3). IL-17E promotes Th2 cell responses (4). The roles of IL-17B, IL-17C, and IL-17D are less clear, however these family members also appear to have the capacity to induce proinflammatory cytokines (1,5,6). IL-17 receptors have an extracellular domain, a transmembrane domain, and a SEFIR domain. They are believed to signal as homodimers, heterodimers, or multimers through their SEFIR domain by recruiting the SEFIR domain-containing adaptor Act1 (7). Unlike most cytokines that signal through Jak/STAT pathways, IL-17 signaling results in NF-κB activation (8).	
Background References	- Gaffen, S.L. (2009) <i>Nat Rev Immunol</i> 9, 556-67. - Iwakura, Y. et al. (2011) <i>Immunity</i> 34, 149-62. - Hu, Y. et al. (2011) <i>Ann N Y Acad Sci</i> 1217, 60-76. - Fort, M.M. et al. (2001) <i>Immunity</i> 15, 985-95. - Yamaguchi, Y. et al. (2007) <i>J Immunol</i> 179, 7128-36. - Li, H. et al. (2000) <i>Proc Natl Acad Sci U S A</i> 97, 773-8. - Chang, S.H. et al. (2006) <i>J Biol Chem</i> 281, 35603-7. - Shalom-Barak, T. et al. (1998) <i>J Biol Chem</i> 273, 27467-73.	

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 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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