

#5503 Store at -20°C

IL-17RA Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	120-170	Rabbit	#Q96F46	23765

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	IL-17RA Antibody recognizes endogenous levels of total IL-17RA protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val790 of human IL-17RA protein. Antibodies are purified by protein A and peptide affinity chromatography.	
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). IL-17RA associates with IL-17RC to mediate signaling by homodimers and heterodimers of IL-17A and IL-17F (9,10). IL-17RA is broadly expressed, with highest expression in hematopoietic cells (11).	
Background References	<ol style="list-style-type: none"> 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. Toy, D. et al. (2006) <i>J Immunol</i> 177, 36-9. Wright, J.F. et al. (2008) <i>J Immunol</i> 181, 2799-805. Yao, Z. et al. (1995) <i>Immunity</i> 3, 811-21. 	

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
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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