

## 5503 s

## **IL-17RA Antibody**



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

Applications: W	Reactivity:	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 120-170	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q96F46	Entrez-Gene Id: 23765
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/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 $\gamma$ 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- $\kappa$ B 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		1. Gaffen, S.L. (2009) <i>Nat Rev Immunol</i> 9, 556-67. 2. Iwakura, Y. et al. (2011) <i>Immunity</i> 34, 149-62. 3. Hu, Y. et al. (2011) <i>Ann N Y Acad Sci</i> 1217, 60-76. 4. Fort, M.M. et al. (2001) <i>Immunity</i> 15, 985-95. 5. Yamaguchi, Y. et al. (2007) <i>J Immunol</i> 179, 7128-36. 6. Li, H. et al. (2000) <i>Proc Natl Acad Sci U S A</i> 97, 773-8. 7. Chang, S.H. et al. (2006) <i>J Biol Chem</i> 281, 35603-7. 8. Shalom-Barak, T. et al. (1998) <i>J Biol Chem</i> 273, 27467-73. 9. Toy, D. et al. (2006) <i>J Immunol</i> 177, 36-9. 10. Wright, J.F. et al. (2008) <i>J Immunol</i> 181, 2799-805. 11. 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 W: Western Blotting

Cross-Reactivity Key H: Human

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