IL-17RA (D1Y4C) Rabbit mAb
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For Research Use Only. Not for Use in Diagnostic Procedures.



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For R ıy

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 120-170	Source/Isotype: Rabbit IgG	UniProt ID: #Q96F46	Entrez-Gene Id: 23765	
Product Usage Information	2	Application Western Blotting			Dilution 1:1000		
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/Ser	Specificity/Sensitivity IL-17RA (D1Y4C) recognizes endogenous levels of total IL-17RA protein.						
Source / Purifi	ce / Purification Monoclonal antibody is produced by immunizing animals with a recombinant fragment of the hu IL-17RA extracellular domain.					ent of the human	
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-kB activation (8). 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 R	Background References 1. Gaffen, S.L. (2009) Nat Rev Immunol 9, 556-67. 2. Iwakura, Y. et al. (2011) Immunity 34, 149-62. 3. Hu, Y. et al. (2011) Ann N Y Acad Sci 1217, 60-76. 4. Fort, M.M. et al. (2001) Immunity 15, 985-95. 5. Yamaguchi, Y. et al. (2007) J Immunol 179, 7128-36. 6. Li, H. et al. (2000) Proc Natl Acad Sci U S A 97, 773-8. 7. Chang, S.H. et al. (2006) J Biol Chem 281, 35603-7. 8. Shalom-Barak, T. et al. (1998) J Biol Chem 273, 27467-73. 9. Toy, D. et al. (2006) J Immunol 177, 36-9. 10. Wright, J.F. et al. (2008) J Immunol 181, 2799-805. 11. Yao, Z. et al. (1995) Immunity 3, 811-21.						
Species Reacti	ivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot I	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	(ey	W: Western Blotting					
Cross-Reactivi	ty Key	H: Human					
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