3/23/24, 10:43 AM Revision 1

IL-17F (D3M4D) Rabbit mAb		Cell Signaling TECHNOLOGY®	
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For Research Use Only	Not for Use in Di	iagnostic Procedures
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Applications: WB, FC-FP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #Q7TNI7	Entrez-Gene Id: 257630
Product Usage Information	•	plication				Dilution
		stern Blotting w Cytometry (Fixed,	(Permeabilized)			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 / Sensi	tivity IL-1	IL-17F (D3M4D) Rabbit mAb recognizes endogenous levels of total mouse IL-17F protein.				
Species predicted react based on 10 sequence homolo	0%					
Source / Purificati	•••	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser93 of mouse IL-17F protein.				

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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 $\gamma\delta$ 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-17F is a cysteine-linked proinflammatory cytokine that can dimerize with itself or form heterodimers with the IL-17 family member that it shares 50% homology with, IL-17A (9). Although mainly produced by Th17 cells, NKT cells, B cells and LTi cells. IL-17F binds to a heterodimeric receptor consisting of IL-17RA and IL-17RC, which upon binding induces the TRAF6-mediated activation of TAK and the Erk1/2 MAP kinase pathway (10). This induces the expression of numerous inflammatory chemokines and cytokines including IL-1 β , IL-6, IL-8, and MIP-1 β along with increased adhesion molecule expression in human airway epithelial cells, vein endothelial cells, and fibroblasts (11). IL-17F has been linked with asthma and other autoimmune diseases including rheumatoid arthritis, multiple sclerosis, psoriasis, and inflammatory bowel disease (12).
Background References	 Gaffen, S.L. (2009) Nat Rev Immunol 9, 556-67. Iwakura, Y. et al. (2011) Immunity 34, 149-62. Hu, Y. et al. (2011) Ann N Y Acad Sci 1217, 60-76. Fort, M.M. et al. (2001) Immunity 15, 985-95. Yamaguchi, Y. et al. (2007) J Immunol 179, 7128-36. Li, H. et al. (2000) Proc Natl Acad Sci U S A 97, 773-8. Chang, S.H. et al. (2006) J Biol Chem 281, 35603-7. Shalom-Barak, T. et al. (1998) J Biol Chem 273, 27467-73. Liang, S.C. et al. (2007) J Immunol 179, 7791-9. Chang, S.H. and Dong, C. (2007) Cell Res 17, 435-40. Hizawa, N. et al. (2006) Clin Exp Allergy 36, 1109-14. Isailovic, N. et al. (2015) J Autoimmun 60, 1-11.
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 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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