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Phospho-TAK1 (Thr184/187) (90C7) Rabbit mAb



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Applications: W, W-S	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit IgG	UniProt ID: #O43318	Entrez-Gene Id: 6885	
Product UsageApplicationInformationWestern BlottingSimple Western™		Western Blotting	Dilution 1:1000 1:10 - 1:50				
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/Sen	sitivity	Phospho-TAK1 (Thr184/187) (90C7) Rabbit mAb detects endogenous levels of TAK1 only when phosphorylated at threonine 184 and threonine 187. In some cell lysates, the antibody may cross-react with a 40 kDa band of unknown origin.					
Species predict based on 100% homology		Mouse, Rat, Chicken, Xenopus, Zebrafish, Bovine					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a phosphopeptide corresponding to residues surrounding Thr184 and Thr187 of human TAK1.					
Background		TAK1 is a mitogen-activated protein kinase kinase kinase that can be activated by TGF-β, bone morphogenetic protein, and other cytokines, including IL-1 (1,2). <i>In vivo</i> activation of TAK1 requires association with TAK1 binding protein 1 (TAB1), which triggers phosphorylation of TAK1 (3,4). Another adaptor protein, TAB2, links TAK1 with TRAF6 and mediates TAK1 activation upon IL-1 stimulation (5). Once activated, TAK1 phosphorylates MAPK kinases MKK4 and MKK3/6, which activate p38 MAPK and JNK, respectively. In addition, TAK1 activates the NF-κB pathway by interacting with TRAF6 and phosphorylating the NF-κB inducing kinase (NIK) (2).					
Background Re	ferences	1. Yamaguchi, K. et al. (1995) <i>Science</i> 270, 2008-11. 2. Ninomiya-Tsuji, J. et al. (1999) <i>Nature</i> 398, 252-6. 3. Shibuya, H. et al. (1996) <i>Science</i> 272, 1179-82. 4. Sakurai, H. et al. (2000) <i>FEBS Lett</i> 474, 141-5. 5. Takaesu, G. et al. (2000) <i>Mol Cell</i> 5, 649-58.					
Species Reactiv	/ity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	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 Ke	∋y	W: Western Blotting W-S: Simple Western™					
Cross-Reactivit	у Кеу	H: Human					
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