Phospho-TAK1 (Thr184) Antibody



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit	UniProt ID: #O43318	Entrez-Gene Id: 6885
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		Phospho-TAK 1(Thr184) Antibody detects endogenous levels of TAK1 only when phosphorylated at threonine 184.				
Species predicted to react based on 100% sequence homology		Mouse, Rat, Chicken, Xenopus, Zebrafish, Bovine				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a phosphopeptide corresponding to residues surrounding Thr184 of human TAK1. Antibodies are purified by protein A and affinity chromatography.				
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).				
		Thr184, residues locat	ted in the activation se activity of TAK1, s	orylations in its activatio loop of TAK1, impairs p uggesting that autopho	hosphorylation of b	oth TAK1 and TAB1
Background References		1. Yamaguchi, K. et al. 2. Ninomiya-Tsuji, J. et 3. Shibuya, H. et al. (1 4. Sakurai, H. et al. (20 5. Takaesu, G. et al. (2	t al. (1999) <i>Nature</i> 3 996) <i>Science</i> 272, 1 000) <i>FEBS Lett</i> 474, 1	98, 252-6. 179-82. 141-5.		
Species Reactivit	ty	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot 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 Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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