

#4508
Store at -20°C

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



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit IgG	UniProt ID: #O43318	Entrez-Gene Id: 6885
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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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	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 predicted to react based on 100% sequence homology	Mouse, Rat, Chicken, Xenopus, Zebrafish, Bovine	
Source / Purification	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 References	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 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
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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