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## TAK1 (D94D7) Rabbit mAb Image: Content of the cont



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Applications: W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 78 to 82	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O43318	Entrez-Gene Id: 6885	
Product Usage Information	5	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 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/Ser	nsitivity	TAK1 (D94D7) Rabbit mAb recognizes endogenous levels of total TAK1 protein.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln600 of human TAK1 protein.					
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 R	eferences	1. Yamaguchi, K. et al. 2. Ninomiya-Tsuji, J. et 3. Shibuya, H. et al. (19 4. Sakurai, H. et al. (20 5. Takaesu, G. et al. (20	al. (1999) <i>Nature</i> 3 996) <i>Science</i> 272, 1 900) <i>FEBS Lett</i> 474,	98, 252-6. 179-82. 141-5.			
Species Reacti	vity	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ley	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat					
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