e at -20C	Phospho-TAK1 (Ser412) Antibody	Cell Signaling		
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Onl	v Not for Use in	Diagnostic Procedures.
FUI NESCAICH USE UNI		Diagnostic Frocedures.

Applications: F WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 82	Source: Rabbit	UniProt ID: #O43318	Entrez-Gene Id: 6885		
Product Usage Information	We	plication estern Blotting nunoprecipitation			Dilution 1:1000 1:50			
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 aliguot the antibody.						
Specificity / Sensitivi		Phospho-TAK1 (Ser412) Antibody detects endogenous levels of TAK1 only when phosphorylated at serine 412.						
Source / Purification	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding serine 412 of mouse TAK1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	mor asso ada Onc JNK pho TAK resi redu TAK Ser4	phogenetic protein bciation with TAK1 I ptor protein, TAB2, e activated, TAK1 p c, respectively. In ac sphorylating the NF 1 activation require dues located in the uces the kinase acti 1 activation (4). TA 412 to alanine acts	and other cytokine binding protein 1 (T links TAK1 with TR bhosphorylates MA dition, TAK1 activa -KB inducing kinas s multiple phospho activation loop of T vity of TAK1, sugge K1 is also phospho as a dominant neg	s including IL-1 (1,2) AB1), which triggers AF6 and mediates T PK kinases MKK4 a tes the NF-kB pathw e (NIK) (2). rylations in its activa AK1, impairs phosp esting that autophos rylated at Ser412 in ative for PKA-enhan	can be activated by TGF . In vivo activation of TAK phosphorylation of TAK TAK1 activation upon IL- and MKK3/6, which activa vay by interacting with T ation loop. Mutations at T horylation of both TAK1 phorylation of these resid a PKA-dependent mann ced degradation of IkBa entiation in RAW264.7 c	K1 requires (1 (3,4). Another 1 stimulation (5). ate p38 MAPK and RAF6 and Fhr187 and Thr184, and TAB1 and dues is necessary for her (6). A mutation of , phosphorylation of		
Background Referen	2. N 3. S 4. S 5. Ta	 Yamaguchi, K. et al. (1995) Science 270, 2008-11. Ninomiya-Tsuji, J. et al. (1999) Nature 398, 252-6. Shibuya, H. et al. (1996) Science 272, 1179-82. Sakurai, H. et al. (2000) FEBS Lett 474, 141-5. Takaesu, G. et al. (2000) Mol Cell 5, 649-58. Kobayashi, Y. et al. (2005) J Biol Chem 280, 11395-403. 						
Species Reactivity	Spec	ies reactivity is det	ermined by testing	n at least one appro	oved application (e.g., we	estern blot).		
Western Blot Buffer		DRTANT: For weste Tween® 20 at 4°C		nembrane with diluted primary antibody in 5% w/v BSA, 1X TBS, g, overnight.				
Applications Key	WB:	Western Blotting I	P: Immunoprecipita	tion				
Cross-Reactivity Key	X: Xe	 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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Phospho-TAK1 (Ser412) Antibody (#9339) Datasheet Without Images Cell Signaling Technology

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