Phospho-SAPK/JNK (Thr183/Tyr185) (98F2) Rabbit mAb



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Applications: W	Reactivity: H M R Hm	Sensitivity: Endogenous	MW (kDa): 46, 54	Source/Isotype: Rabbit IgG	UniProt ID: #P45983	Entrez-Gene Id: 5599
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-SAPK/JNK (Thr183/Tyr185) (98F2) Rabbit mAb detects endogenous levels of p46 and p54 SAPK/JNK only when phosphorylated at Thr183 and Tyr185. This antibody does not recognize phosphorylated p44/42 MAPK or p38 MAP kinase.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr183/Tyr185 of human SAPK/JNK.				
Background		The stress-activated protein kinase/Jun-amino-terminal kinase SAPK/JNK is potently and preferentially activated by a variety of environmental stresses, including UV and gamma radiation, ceramides, inflammatory cytokines, and in some instances, growth factors and GPCR agonists (1-6). As with the other MAPKs, the core signaling unit is composed of a MAPKKK, typically MEKK1-MEKK4, or by one of the mixed lineage kinases (MLKs), which phosphorylate and activate MKK4/7. Upon activation, MKKs phosphorylate and activate the SAPK/JNK kinase (2). Stress signals are delivered to this cascade by small GTPases of the Rho family (Rac, Rho, cdc42) (3). Both Rac1 and cdc42 mediate the stimulation of MEKKs and MLKs (3). Alternatively, MKK4/7 can be activated in a GTPase-independent mechanism via stimulation of a germinal center kinase (GCK) family member (4). There are three SAPK/JNK genes each of which undergoes alternative splicing, resulting in numerous isoforms (3). SAPK/JNK, when active as a dimer, can translocate to the nucleus and regulate transcription through its effects on c-Jun, ATF-2, and other transcription factors (3,5).				
Background References		 Davis, R.J. (1999) Biochem Soc Symp 64, 1-12. Ichijo, H. (1999) Oncogene 18, 6087-93. Kyriakis, J.M. and Avruch, J. (2001) Physiol Rev 81, 807-69. Kyriakis, J.M. (1999) J Biol Chem 274, 5259-62. Leppä, S. and Bohmann, D. (1999) Oncogene 18, 6158-62. Whitmarsh, A.J. and Davis, R.J. (1998) Trends Biochem Sci 23, 481-5. 				
Species Reactiv	/ity	Species reactivity is d	etermined by testin	g in at least one approv	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat				

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 M: Mouse R: Rat Hm: Hamster

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