

#3708 Store at -20°C

JNK1 (2C6) Mouse mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	46, 54	Mouse IgG1	#P45983	5599

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	JNK1 (2C6) Mouse mAb detects endogenous levels of total JNK1 protein. This antibody may cross react with recombinant levels JNK2 protein. The antibody does not cross react with JNK3 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant protein corresponding to the amino terminus of human JNK1.	
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	<ol style="list-style-type: none"> 1. Davis, R.J. (1999) <i>Biochem Soc Symp</i> 64, 1-12. 2. Ichijo, H. (1999) <i>Oncogene</i> 18, 6087-93. 3. Kyriakis, J.M. and Avruch, J. (2001) <i>Physiol Rev</i> 81, 807-69. 4. Kyriakis, J.M. (1999) <i>J Biol Chem</i> 274, 5259-62. 5. Leppä, S. and Bohmann, D. (1999) <i>Oncogene</i> 18, 6158-62. 6. Whitmarsh, A.J. and Davis, R.J. (1998) <i>Trends Biochem Sci</i> 23, 481-5. 	

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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