e at -20C	JNK3 (55A8) Rabbit mAb		ell Signaling				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com				
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 54	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P53779	Entrez-Gene Id 5602		
Product Usage Information		<b>Application</b> 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		JNK3 (55A8) Rabbit Monoclonal Antibody detects endogenous levels of total JNK3 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to human JNK3.						
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		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 Reactivi	ity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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 Ke	у	W: Western Blotting						
Cross-Reactivity Key		H: Human M: Mouse R: Rat						
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