e at -20C	SAPK/JNK Antibody			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
52		Support:	877-678-TECH (8324)	
#9252		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers   Mas	sachusetts   01923   USA	

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, W-S	<b>Reactivity:</b> H M R Hm Mk Z B Sc	Sensitivity: Endogenous	<b>MW (kDa):</b> 46, 54	Source: Rabbit	<b>UniProt ID:</b> #P45983	Entrez-Gene Id: 5599		
Product Usage	Ар	olication			Dilution			
Information	We	stern Blotting			1:1000			
	Sim	ple Western™			1:10 - 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 aliquot the antibody.						
Specificity / Sens	sitivity SAP	SAPK/JNK Antibody detects endogenous levels of total JNK1, JNK2 or JNK3 protein.						
Source / Purifica		Polyclonal antibodies are produced by immunizing animals with a recombinant human JNK2 fusion protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	activ infla MAF mixe phos GTP and of a unde trans trans	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 Ref	2. lcl 3. Ky 4. Ky 5. Le	nijo, H. (1999) Óno rriakis, J.M. and Av rriakis, J.M. (1999) ppä, S. and Bohm	iochem Soc Symp 6 cogene 18, 6087-93 rruch, J. (2001) Phy J Biol Chem 274, 5 ann, D. (1999) Onc Davis, R.J. (1998)	siol Rev 81, 807-69 259-62. ogene 18, 6158-62				
Species Reactivi	ty Spec	es reactivity is det	ermined by testing i	n at least one appr	oved application (e.g., w	estern blot).		
Western Blot But			ern blots, incubate n C with gentle shaking		ed primary antibody in 5	% w/v BSA, 1X TBS,		
Applications Key	/ WB:	Western Blotting V	N-S: Simple Wester	'n™				
Cross-Reactivity	<b>X:</b> Xe	nopus <b>Z:</b> zebrafisł		<b>Ik:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster g <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse s expected				
Trademarks and Patents	All ot			nark of Cell Signaling Technology, Inc. • of their respective owners. Visit cellsignal.com/trademarks for more				
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## SAPK/JNK Antibody (#9252) Datasheet Without Images Cell Signaling Technology

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