Phospho-SAPK/JNK (Thr183/Tyr185) (98F2) Rabbit mAb			:	Orders: Support:		ECHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324)
46					Web:	info@cellsignal.com cellsignal.com
#				3 Trask L	ane Danvers Ma	ssachusetts 01923 USA
or Research Use Only.	Not for Use in	Diagnostic Proc	edures.			
Applications: WB	Reactivity: H M R Hm	Sensitivity: Endogenous	MW (kDa): 46, 54	Source/Isotype: Rabbit IgG	UniProt ID: #P45983	Entrez-Gene Id: 5599
Product Usage	Ар	plication			Dilution	
Information	We	stern Blotting			1:1000	
Storage	Sup 0.02	plied in 10 mM sodi % sodium azide. Si	um HEPES (pH 7 tore at –20°C. Do	7.5), 150 mM NaCl, 100 not aliquot the antibody	μg/ml BSA, 50% gly /.	ycerol and less than
Specificity / Serei	tivity Dho	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 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) Biochem Soc Symp 64, 1-12.

 2. Ichijo, H. (1999) Oncogene 18, 6087-93.

 3. Kyriakis, J.M. and Avruch, J. (2001) Physiol Rev 81, 807-69.

 4. Kyriakis, J.M. (1999) J Biol Chem 274, 5259-62.

 5. Leppä, S. and Bohmann, D. (1999) Oncogene 18, 6158-62.

 6. Whitmarsh, A.J. and Davis, R.J. (1998) Trends Biochem Sci 23, 481-5.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot). IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. **Applications Key** WB: Western Blotting H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 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 Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Trademarks and All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more Patents information. Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the Limited Uses following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and

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