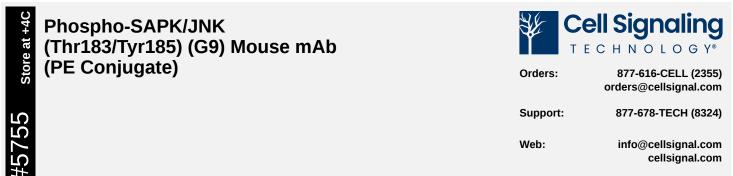
1/1/24, 8:04 AM Revision 1



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

	ctivity: Sensitivity: S R Hm Sc Endogenous	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P45983	Entrez-Gene Id: 5599	
Product Usage Information			Dilution 1:50		
Storage	Supplied in PBS (pH 7.2), antibodies. Protect from lig		g/ml BSA. Store at 4°C.	ml BSA. Store at 4°C. Do not aliquot the	
Specificity / Sensitivity	and p54 SAPK/JNK dually	Phospho-SAPK/JNK (Thr183/Tyr185) (G9) Mouse mAb (PE Conju and p54 SAPK/JNK dually phosphorylated at Thr183 and Tyr185. endogenous levels of phosphorylated p44/42 MAPK or p38 MAPK		This antibody does not recognize	
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr183/Tyr185 of human SAPK/JNK. The antibody is purified by affinity chromatography.			
Product Description	flow cytometry analysis in	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-SAPK/JNK (Thr183/Tyr185) (G9) Mouse mAb #9255.			
Background	activated by a variety of el inflammatory cytokines, al MAPKs, the core signaling mixed lineage kinases (MI phosphorylate and activat GTPases of the Rho famil and MLKs (3). Alternativel of a germinal center kinas undergoes alternative spli	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 Referenc	2. Ichijo, H. (1999) Oncog 3. Kyriakis, J.M. and Avruc 4. Kyriakis, J.M. (1999) J I 5. Leppä, S. and Bohman	<ol> <li>Davis, R.J. (1999) <i>Biochem Soc Symp</i> 64, 1-12.</li> <li>Ichijo, H. (1999) <i>Oncogene</i> 18, 6087-93.</li> <li>Kyriakis, J.M. and Avruch, J. (2001) <i>Physiol Rev</i> 81, 807-69.</li> <li>Kyriakis, J.M. (1999) <i>J Biol Chem</i> 274, 5259-62.</li> <li>Leppä, S. and Bohmann, D. (1999) <i>Oncogene</i> 18, 6158-62.</li> <li>Whitmarsh, A.J. and Davis, R.J. (1998) <i>Trends Biochem Sci</i> 23, 481-5.</li> </ol>			
Species Reactivity	Species reactivity is detern	Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Applications Key	FC-FP: Flow Cytometry (F	FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key	X: Xenopus Z: zebrafish B	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			
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.				

## **Limited Uses**

Phospho-SAPK/JNK (Thr183/Tyr185) (G9) Mouse mAb (PE Conjugate) (#5755) Datasheet Without Images Ce...

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