

9257 ste

Phospho-SAPK/JNK (Thr183/Tyr185) (G9) Mouse mAb (Alexa Fluor® 647 Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: FC-FP	Reactivity: H M R Hm Sc	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P45983	Entrez-Gene Id: 5599
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-SAPK/JNK (Thr183/Tyr185) (G9) mAb (Alexa Fluor® 647 Conjugate) detects endogenous levels of p46 and p54 SAPK/JNK dually phosphorylated at Thr183 and Tyr185. This antibody does not recognize endogenous levels of phosphorylated p44/42 MAPK or p38 MAP kinase.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Thr183/Tyr185 of human SAPK/JNK. The antibody was conjugated to Alexa Fluor [®] 647 under optimum conditions with an F/P ratio of 2-6. This antibody was conjugated to Alexa Fluor [®] 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor [®] 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor [®] 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.			
Description		Cell Signaling Technology Antibody conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct Flow Cytometric analysis of human and mouse cells. The unconjugated antibody #9255 react with, among others, human, mouse, rat and hamster phospho-SAPK/JNK (Thr183/Tyr185). CST expects that Phospho-SAPK/JNK (Thr183/Tyr185) (G9) Mouse mAb (Alexa Fluor® 647 Conjugate) will also recognize phospho-SAPK/JNK (Thr183/Tyr185) in these species.			
Background		The stress-activated protein kinase/Jun-amino-terminal kinase SAPK/JNK is potently and preferential 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 vistimulation of a germinal center kinase (GCK) family member (4). There are three SAPK/JNK genes early which undergoes alternative splicing, resulting in numerous isoforms (3). SAPK/JNK, when active a dimer, can translocate to the nucleus and regulate transcription through its effects on c-Jun, ATF-2, a other transcription factors (3,5).			mma radiation, ceramides, PCR agonists (1-6). As with the ally MEKK1-MEKK4, or by one of MKK4/7. Upon activation, MKKs delivered to this cascade by dc42 mediate the stimulation of se-independent mechanism via re are three SAPK/JNK genes each ms (3). SAPK/JNK, when active as a
Background References		 Davis, R.J. (1999) Biochem Soc Symp 64, 1-12. Ichijo, H. (1999) Oncogene 18, 6087-93. Kyriakis, J.M. and Avruch, J. (2001) Physiol Rev 81, 807-69. Kyriakis, J.M. (1999) J Biol Chem 274, 5259-62. Leppä, S. and Bohmann, D. (1999) Oncogene 18, 6158-62. 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).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Sc: S. cerevisiae

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is conditioned on the buyer using the purchased product solely in research

conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not (1) use this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; or (c) manufacturing or quality assurance or quality control, and/or (2) sell or transfer this product or its components for resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.