Store at +4C



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

Applications: FC-FP F	Reactivity: I M R Hm Sc	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P45983	Entrez-Gene Id: 5599	
Product Usage	Appl	Application Dilution				
Information	Flow	Cytometry (Fixe	d/Permeabilized)		1:50	
StorageSupplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C antibody. Protect from light. Do not freeze.			. Do not aliquot the			
Specificity / Sensitiv	vity Phosp of p46 endog	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	Mono residu under optim 633 n emiss	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.				
Product Description	Cell S direct amon Phosp phosp	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 reacts 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 s activa inflam MAPH mixed phosp GTPa and M of a g under transle transle	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 Refere	1. Dav 2. Ichi 3. Kyr 4. Kyr 5. Lep 6. Wh	ris, R.J. (1999) <i>B</i> jo, H. (1999) <i>Ond</i> iakis, J.M. and Av iakis, J.M. (1999) pä, S. and Bohm itmarsh, A.J. and	iochem Soc Symp 64, 1-12. cogene 18, 6087-93. vruch, J. (2001) Physiol Rev 81) J Biol Chem 274, 5259-62. nann, D. (1999) Oncogene 18, I Davis, R.J. (1998) Trends Biol	L, 807-69. 6158-62. chem Sci 23, 481-5.		
Species Reactivity	Specie	s reactivity is det	termined by testing in at least c	ne approved application (e.g., we	stern blot).	
Applications Kev	FC-FF	FC-FP: Flow Cytometry (Fixed/Permeabilized)				

1/1/24, 1:53 PM	Phospho-SAPK/JNK (Thr183/Tyr185) (G9) Mouse mAb (Alexa Fluor® 647 Conjugate) (#9257) Datasheet Wit
Cross-Reactivity	 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
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