1306

Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb (Sepharose[®] Bead Conjugate)



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Applications: IP	Reactivity: H M R Dm Sc	Sensitivity: Endogenous	MW (kDa): 46, 54	Source/Isotype: Rabbit IgG	UniProt ID: #P45983	Entrez-Gene Id: 5599		
Product Usage Information		Application Immunoprecipitation	ation Dilution					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol. Store at –20°C. Do not aliquot the antibodies.						
Specificity/Sensitivity		Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb (Sepharose [®] Bead Conjugate) detects endogenous levels of p46 and p54 SAPK/JNK only when phosphorylated at Thr183 and Tyr185. This antibody does not recognize phosphorylated p44/42 or p38 MAP kinases.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr183/Tyr185 of human SAPK/JNK protein.						
Description		This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose [®] beads. Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb (Sepharose [®] Bead Conjugate) is useful for the immunoprecipitation of SAPK/JNK phosphorylated at Thr183 and Tyr185. The antibody is expected to exhibit the same species cross- reactivity as the unconjugated Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb #4668.						
BackgroundThe stress-activated protein kinase/Jun-amino-terminal kinase SAPK/JNK is p activated by a variety of environmental stresses, including UV and gamma ra inflammatory cytokines, and in some instances, growth factors and GPCR ac other MAPKs, the core signaling unit is composed of a MAPKKK, typically ME the mixed lineage kinases (MLKs), which phosphorylate and activate MKK4/7 phosphorylate and activate the SAPK/JNK kinase (2). Stress signals are delive small GTPases of the Rho family (Rac, Rho, cdc42) (3). Both Rac1 and cdc42 m MEKKs and MLKs (3). Alternatively, MKK4/7 can be activated in a GTPase-industimulation of a germinal center kinase (GCK) family member (4). There are to of which undergoes alternative splicing, resulting in numerous isoforms (3). dimer, can translocate to the nucleus and regulate transcription through its other transcription factors (3,5).				d gamma radiation, nd GPCR agonists (1 ypically MEKK1-ME ate MKK4/7. Upon a s are delivered to th and cdc42 mediate t GTPase-independen There are three SAI oforms (3). SAPK/JN	ceramides, -6). As with the KK4, or by one of activation, MKKs his cascade by the stimulation of t mechanism via PK/JNK genes each K, when active as a			
Background R	eferences	1. Davis, R.J. (1999) <i>Biochem Soc Symp</i> 64, 1-12. 2. Ichijo, H. (1999) <i>Oncogene</i> 18, 6087-93. 3. Kyriakis, J.M. and Avruch, J. (2001) <i>Physiol Rev</i> 81, 807-69. 4. Kyriakis, J.M. (1999) <i>J Biol Chem</i> 274, 5259-62. 5. Leppä, S. and Bohmann, D. (1999) <i>Oncogene</i> 18, 6158-62. 6. Whitmarsh, A.J. and Davis, R.J. (1998) <i>Trends Biochem Sci</i> 23, 481-5.						
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Applications K	cations Key IP: Immunoprecipitation							
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Dm: D. melanogaster Sc: S. cerevisiae						
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