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



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Support:

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

Applications: IP	Reactivity: H M R Dm Sc	Sensitivity: Endogenous	<b>MW (kDa):</b> 46, 54	Source/Isotype: Rabbit IgG	UniProt ID: #P45983	Entrez-Gene Id: 5599	
Product Usage Information	Application			Dilution			
	Imn	Immunoprecipitation			1:20		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol. Store at –20 Do not aliquot the antibodies.						
Specificity / Sens	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.						
<b>Source / Purification</b> Monoclonal antibody is produced by imm residues surrounding Thr183/Tyr185 of he				nunizing animals with a synthetic phosphopeptide corresponding to numan SAPK/JNK protein.			
Product Descripti	hydr Rabl phos	This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose <sup>®</sup> beads. Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb (Sepharose <sup>®</sup> 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.					
MW (kDa)		46, 54					

## **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 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 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).

**Applications Key** 

IP: Immunoprecipitation

**Cross-Reactivity Key** 

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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb (Sepharose® Bead Conjugate) (#4306) Datashee...

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