Store at -200

Phospho-SEK1/MKK4 (Thr261) Antibody



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 46	Source: Rabbit	UniProt ID: #P45985	Entrez-Gene Id: 6416	
Product Usage Information	Ар	plication		Dilution			
	We	estern Blotting		1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens	pho	Phospho-SEK1/MKK4 (Thr261) Antibody detects endogenous levels of SEK1/MKK4 protein only when phosphorylated at threonine 261. This antibody does not cross-react with the corresponding phosphorylated residues of MEK1, MEK2 or MKK3.					
Source / Purifica	Ource / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Thr261 of human SEK1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	hom Acti 257 SAF	SAPK/Erk kinase (SEK1), also known as MKK4 or Jun kinase kinase (JNKK), activates the MAP kinase homologues SAPK and JNK in response to various cellular stresses and inflammatory cytokines (1-3). Activation of SEK1 occurs through MEKK phosphorylation of serine and threonine residues at positions 257 and 261, respectively. Like MEK, SEK is a dual-specificity protein kinase that phosphorylates SAPK/JNK at a conserved T*PY* site in its activation loop (4). Phosphorylation by Akt at Ser80 inhibits SEK1 and suppresses stress-activated signal transduction (5).					
Background Refe	2. S 3. Y 4. K	 Davis, R.J. (1994) Trends Biochem. Sci. 19, 470-473. Sanchez, I. et al. (1994) Nature 372, 794-798. Yan, M. et al. (1994) Nature 372, 798-800. Kyriakis, J.M. et al. (1994) Nature 369, 156-160. Park, H. et al. (2002) J. Biol. Chem. 277, 2573-2578. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

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 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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