Phospho-SEK1/MKK4 (Thr261) Antibody



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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 46	Source/Isotype: Rabbit	UniProt ID: #P45985	Entrez-Gene Id: 6416		
Product Usage Information	2	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Ser	nsitivity	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 / Purifi	cation	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		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 R	eferences	1. Davis, R.J. (1994) <i>Tr</i> . 2. Sanchez, I. et al. (19 3. Yan, M. et al. (1994) 4. Kyriakis, J.M. et al. (5. Park, H. et al. (2002	994) <i>Nature</i> 372, 79) <i>Nature</i> 372, 798-80 (1994) <i>Nature</i> 369, 1	4-798. 00. 56-160.				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ley	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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