SEK1/MKK4 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.						
Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 44	Source: Rabbit	UniProt ID: #P45985	Entrez-Gene Id: 6416
Product Usage Information	Ap	plication			Dilution	
	We	estern Blotting			1:1000	
	Imi	munoprecipitation			1:50	
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		SEK1/MKK4 Antibody detects endogenous levels of total SEK1/MKK4 protein. This antibody does not cross-react with MEK1, MEK2 or MKK3.				
Species predicte react based on 1 sequence homol	00%	J				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the N-terminus of human SEK1/MKK4. 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 References 1. Davis, R.J. (1994) Trends Biochem. Sci. 19, 470-473.

2. Sanchez, I. et al. (1994) Nature 372, 794-798.

3. Yan, M. et al. (1994) Nature 372, 798-800.

4. Kyriakis, J.M. et al. (1994) Nature 369, 156-160.

5. Park, H. et al. (2002) J. Biol. Chem. 277, 2573-2578.

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

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 IP: Immunoprecipitation

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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