Store at -20C

## Phospho-SEK1/MKK4 (Ser257/Thr261) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H M R Dm	Sensitivity: Endogenous	MW (kDa): 44	Source: Rabbit	UniProt ID: #P45985	Entrez-Gene Id: 6416	
Product Usage	Ар	plication			Dilution		
Information	We	estern Blotting			1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sens	pho pho	Phospho-SEK1/MKK4 (Ser257/Thr261) Antibody detects endogenous levels of SEK1/MKK4 phosphorylated at serine 257/threonine 261. This antibody does not cross-react with the corresponding phosphorylated residues of MEK1, MEK2 or MKK3. It will also react with SEK1/MKK4 singly phosphorylated at Thr261.					
Species predicted react based on 10 sequence homological contracts and contracts are contracted by the contract of the contrac	00%	nopus, Zebrafish					
Source / Purificat	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponditor residues surrounding Ser257/Thr261 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 kind homologues SAPK and JNK in response to various cellular stresses and inflammatory cytokines (1 Activation of SEK1 occurs through MEKK phosphorylation of serine and threonine residues at posi 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 inh SEK1 and suppresses stress-activated signal transduction (5).						cytokines (1-3). idues at positions sphorylates	
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** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer** 

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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