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## Phospho-SEK1/MKK4 (Ser257) (C36C11) Rabbit mAb



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Applications: W, FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 44	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P45985	Entrez-Gene Id: 6416		
Product Usage Information		<b>Application</b> Western Blotting Flow Cytometry (Fixed/Permeabilized)			<b>Dilution</b> 1:1000 1:400			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #75450.						
Specificity/Ser	sitivity	Phospho-SEK1/MKK4 (Ser257) (C36C11) Rabbit mAb detects endogenous levels of SEK1/MKK4 phosphorylated at Ser257 .						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser257/Thr261 of human SEK1/MKK4.						
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>Trends Biochem. Sci.</i> 19, 470-473. 2. Sanchez, I. et al. (1994) <i>Nature</i> 372, 794-798. 3. Yan, M. et al. (1994) <i>Nature</i> 372, 798-800. 4. Kyriakis, J.M. et al. (1994) <i>Nature</i> 369, 156-160. 5. Park, H. et al. (2002) <i>J. Biol. Chem.</i> 277, 2573-2578.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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	ey	W: Western Blotting FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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