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Phospho-SEK1/MKK4 (Ser257) (C36C11) Rabbit mAb (PE Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M R Mk	Endogenous	Rabbit	#P45985	6416
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)			Dilution 1:50	
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity	Phospho-SEK1/MKK4 (Ser257) (C36C11) Rabbit mAb (PE Conjugate) detects endogenous levels of SEK1/MKK4 phosphorylated at Ser257.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser257/Thr261 of human SEK1/MKK4.				
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-SEK1/MKK4 (Ser257) (C36C11) Rabbit mAb #4514.				
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	<ol style="list-style-type: none"> 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 Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key **H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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