Phospho-MKK3 (Ser189)/MKK6 (Ser207) (22A8) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 40 P-MKK3, 41 P-MKK6	Source/Isotype: Rabbit IgG	UniProt ID: #P46734, #P52564	Entrez-Gene Id: 5606, 5608
Product Usage Information	Ар	plication		Dilution		
	We	estern Blotting			1:1000	
	Im	munoprecipitation			1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensiti	whe	Phospho-MKK3/MKK6 (Ser189/207) (22A8) Rabbit mAb detects endogenous levels of MKK3/MKK6 only when phosphorylated at serine189/207. The antibody does not recognize the corresponding phosphorylated residues of MEK1, MEK2 or MKK4/SEK1.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser189/207 of human MKK3.				
Background	5). l do i stim botl and	MKK3 and MKK6 are two closely related dual-specificity protein kinases that activate p38 MAP kinase (1-5). MKK3 and MKK6 both phosphorylate and activate p38 MAP kinase at its activation site, Thr-Gly-Tyr, but do not phosphorylate or activate Erk1/2 or SAPK/JNK. Phosphorylation of p38 MAP kinase dramatically stimulates its ability to phosphorylate protein substrates such as ATF-2 and Elk-1. MKK3 and MKK6 are both activated by different forms of cellular stress and inflammatory cytokines (4,5). Activation of MKK3 and MKK6 occurs through phosphorylation at Ser189 and Thr222 on MKK3 (2) and Ser207 and Thr211 on MKK6 (4,5).				
Background Refere	2. R 3. S 4. R	 Derijard, B. et al. (1995) Science 267, 682-685. Raingeaud, J. et al. (1995) J. Biol. Chem. 270, 7420-7426. Sluss, H.K. et al. (1994) Mol. Cell. Biol. 14, 8376-8384. Raingeaud, J. et al. (1996) Mol. Cell. Biol. 16(3), 1247-1255. Han, J. et al. (1996) J. Biol. Chem. 271, 2886-2891. 				

Species Reactivity

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

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

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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