

12280

Phospho-MKK3 (Ser189)/MKK6 (Ser207) (D8E9) Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 38 MKK6, 40 MKK3	Source/Isotype: Rabbit IgG	UniProt ID: #P46734, #P52564	Entrez-Gene Id: 5606, 5608
Product Usage Information		Application Western Blotting Immunoprecipitatio Immunofluorescend	n e (Immunocytochemis	try)		Dilution 1:1000 1:100 1:400
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/Sensitivity		Phospho-MKK3 (Ser189)/MKK6 (Ser207) (D8E9) Rabbit mAb recognizes endogenous levels of MKK3 and MKK6 proteins only when phosphorylated at Ser189 (MKK3) or Ser207 (MKK6).				
Species predict based on 100% homology		Zebrafish, Bovine, G	uinea Pig			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser189 of human MKK3 protein and Ser207 of human MKK6 protein.				
Background		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 References		 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 Reactiv	vity	Species reactivity is	determined by testing	in at least one appro	ved application (e.g., w	vestern blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5 dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				5% w/v nonfat
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocyto				tochemistry)
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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