

MKK3b Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit	UniProt ID: #P46734	Entrez-Gene Id: 5606
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MKK3b Antibody detects endogenous levels of total MKK3b protein. This antibody does not cross-react with MEK1, MEK2, MKK4 or MKK6.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the N-terminal sequence of human MKK3. Antibodies are purified by protein A and peptide affinity chromatogrpahy.				
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). Three alternatively spliced transcript variants of MKK3 encoding distinct isoforms have been reported. Isoform B utilizes a different start codon compared to isoform C resulting in the production of a N-terminal segment of isoform B which is shorter and distinct from isoform C . MKK3b is the predominant form of MKK3 and strongly activates p38 MAP kinase (6)				
Background References		 Derijard, B. et al. (1995) <i>Science</i> 267, 682-685. Raingeaud, J. et al. (1995) <i>J. Biol. Chem.</i> 270, 7420-7426. Sluss, H.K. et al. (1994) <i>Mol. Cell. Biol.</i> 14, 8376-8384. Raingeaud, J. et al. (1996) <i>Mol. Cell. Biol.</i> 16(3), 1247-1255. Han, J. et al. (1996) <i>J. Biol. Chem.</i> 271, 2886-2891. Han, J. et al. (1997) <i>FEBS Letters</i> 403(1), 19-22. 				
Species Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed 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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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