Store at -20C **Cell Signaling** Phospho-MKK3 (Ser189)/MKK6 (Ser207) Antibody TECHNOLOGY® 877-616-CELL (2355) Orders: orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures. Reactivity: H M R MW (kDa): 40 Phospho-Entrez-Gene Id: 5606, 5608 Applications: WB Sensitivity: Source: UniProt ID: #P46734 #P52564 Endogenous Rabbit

WB	HMR	Endogenous	40 Phospho- MKK3. 41 Phospho-MKK6.	Rabbit	#P46734, #P52564	5606, 5608	
Product Usage Information		Application Western Blotting			<b>Dilution</b> 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivit	- pl	Phospho-MKK3/MKK6 (Ser189/207) Antibody detects endogenous levels of MKK3/MKK6 only when phosphorylated at Ser189/207. The antibody does not recognize the corresponding phosphorylated residues of MEK1, MEK2 or MKK4/SEK1.					
Source / Purification	to	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser189/207 of human MKK3. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	5) di st bi ai	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 Referenc	2. 3. 4.	<ol> <li>Derijard, B. et al. (1995) Science 267, 682-685.</li> <li>Raingeaud, J. et al. (1995) J. Biol. Chem. 270, 7420-7426.</li> <li>Sluss, H.K. et al. (1994) Mol. Cell. Biol. 14, 8376-8384.</li> <li>Raingeaud, J. et al. (1996) Mol. Cell. Biol. 16(3), 1247-1255.</li> <li>Han, J. et al. (1996) J. Biol. Chem. 271, 2886-2891.</li> </ol>					
Species Reactivity	Sp	ecies reactivity is det	ermined by testing in	at least one app	roved application (e.g., weste	ern 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	B: Western Blotting					
Cross-Reactivity Key	X:	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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			21.6.				

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