

#3042 Store at -20C	MAPKAPK-2 Antibody	
	Orders: 877-616-CELL (2355) orders@cellsignal.com	
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	47, 49 (Phosphorylated).	Rabbit	#P49137	9261

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 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.		
Specificity/Sensitivity	MAPKAPK-2 Antibody detects endogenous levels of total MAPKAPK-2 protein. This antibody does not cross-react with MAPKAPK-3 or -5.		
Species predicted to react based on 100% sequence homology	Hamster		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal region of human MAPKAPK-2. Antibodies are purified by protein A and peptide affinity chromatography.		
Background	In response to cytokines, stress, and chemotactic factors, MAP kinase-activated protein kinase 2 (MAPKAPK-2) is rapidly phosphorylated and activated. It has been shown that MAPKAPK-2 is a direct target of p38 MAPK (1). Multiple residues of MAPKAPK-2 are phosphorylated <i>in vivo</i> in response to stress. However, only four residues (Thr25, Thr222, Ser272, and Thr334) are phosphorylated by p38 MAPK in an <i>in vitro</i> kinase assay (2). Phosphorylation at Thr222, Ser272, and Thr334 appears to be essential for the activity of MAPKAPK-2 (2). Thr25 is phosphorylated by p42 MAPK <i>in vitro</i> , but is not required for the activation of MAPKAPK-2 (2).		
Background References	1. Rouse, J. et al. (1994) <i>Cell</i> 78, 1027-1037. 2. Ben-Levy, R. et al. (1995) <i>EMBO J.</i> 14, 5920-5930.		

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	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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