

Phospho-MAPKAPK-2 (Thr222) 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

For Research Use Only. Not for Use in Diagnostic Procedures.

Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
Endogenous	49	Rabbit	#P49137	9261
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	Phospho-MAPKAPK-2 (Thr222) Antibody detects endogenous levels of MAPKAPK-2 protein only when phosphorylated at threonine 222. It may cross-react with MAPKAPK-3 phosphorylated at threonine 200 and MAPKAPK-5 phosphorylated at threonine 182.			
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr222 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	<ol style="list-style-type: none"> 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).

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