MAPKAPK-3 (D54E4) Rabbit mAb





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Applications: W	Reactivity: H M R Mk Pg	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit IgG	UniProt ID: #Q16644	Entrez-Gene Id: 7867		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage			Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		MAPKAPK-3 (D54E4) Rabbit mAb recognizes endogenous levels of total MAPKAPK-3 protein. This antibody does not cross-react with MAPKAPK-2 or MAPKAPK-5.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro34 of human MAPKAPK-3 protein.						
Background		MAPKAPK-3 has a single potential SH3-binding site in the proline-rich amino terminus, a putative ATP- binding site, 2 MAP kinase phosphorylation site motifs, and a putative nuclear localization signal. It shares 72% nucleotide and 75% amino acid identity with MAPKAPK-2 (1). MAPKAPK-3 has been shown to be activated by growth inducers and stress stimulation of cells. <i>In vitro</i> studies have demonstrated that Erk, p38 MAP kinase, and Jun amino-terminal kinase are able to phosphorylate and activate MAPKAPK-3, which suggested a role for this kinase as an integrative element of signaling in both mitogen and stress responses (2). MAPKAPK-3 was reported to interact with, phosphorylate, and repress the activity of E47, which is a basic helix-loop-helix transcription factor involved in the regulation of tissue-specific gene expression and cell differentiation (3). MAPKAPK-3 may also support luteal maturation through the phosphorylation and activation of the nuclear transcription factor CREB (4).						
Background R	eferences	1. Sithanandam, G. et 2. Ludwig, S. et al. (19 3. Neufeld, B. et al. (20 4. Maizels, E.T. et al. (2	96) <i>Mol. Cell Biol.</i> 1 000) <i>J. Biol. Chem.</i> 2	5, 6687-6697. 75, 20239-20242.				
Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western					western blot).			
Western Blot I	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 K	(ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey Pg: Pig						
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