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MAPKAPK-3 Antibody



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Applications: WB	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 42	Source: Rabbit	UniProt ID: #Q16644	Entrez-Gene Id 7867	
Product Usage	Ар	plication			Dilution		
Information	We	Western Blotting			1:1000		
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		MAPKAPK-3 Antibody detects endogenous levels of total MAPKAPK-3 protein. This antibody does not cross-react with MAPKAPK-2 or -5.					
Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic per amino-terminal region of human MAPKAPK-3. Antibodies are purified by protein chromatography.							
Background	bind 72% activ p38 whic resp whic expr	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 References

- 1. Sithanandam, G. et al. (1996) *Mol. Cell Biol.* 16, 868-876.
- 2. Ludwig, S. et al. (1996) Mol. Cell Biol. 16, 6687-6697.
- 3. Neufeld, B. et al. (2000) J. Biol. Chem. 275, 20239-20242.
- 4. Maizels, E.T. et al. (2001) Mol. Endocrinol. 15, 716-733.

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

WB: Western Blotting

Cross-Reactivity Key

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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