## **MAPKAPK-3** Antibody



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

Applications: W	Reactivity: H R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 42	Source/Isotype: Rabbit	UniProt ID: #Q16644	Entrez-Gene Id: 7867
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
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-3 Antibody detects endogenous levels of total MAPKAPK-3 protein. This antibody does not cross-react with MAPKAPK-2 or -5.				
Source / Purific	cation		gion of human MAI	munizing animals with PKAPK-3. Antibodies are		
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 References		1. Sithanandam, G. et al. (1996) <i>Mol. Cell Biol.</i> 16, 868-876. 2. Ludwig, S. et al. (1996) <i>Mol. Cell Biol.</i> 16, 6687-6697. 3. Neufeld, B. et al. (2000) <i>J. Biol. Chem.</i> 275, 20239-20242. 4. Maizels, E.T. et al. (2001) <i>Mol. Endocrinol.</i> 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 W: Western Blotting

Cross-Reactivity Key H: Human R: Rat Mk: Monkey

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