

## Product datasheet for **TA319252**

### MAPKAP Kinase 2 (MAPKAPK2) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:15,000, WB: 1:2,000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Immunogen: This antibody was affinity purified from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to aa 310-325 of rabbit MAPKAP Kinase 2 conjugated to KLH using maleimide. A terminal cysteine residue was added to facilitate coupling.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	mitogen-activated protein kinase-activated protein kinase 2
Database Link:	<a href="#">NP_004750</a> <a href="#">Entrez Gene 17164 Mouse</a> <a href="#">Entrez Gene 289014 Rat</a> <a href="#">Entrez Gene 9261 Human</a> <a href="#">P49137</a>
Synonyms:	MAPKAP-K2; MK-2; MK2



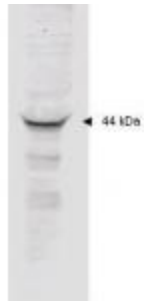
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**Note:** MAPKAP kinase-2 (or MK2) is an acronym for mitogen-activated protein kinase-activated protein kinase-2. This enzyme is phosphorylated and activated by Erks and p38 MAPK in vitro. While multiple residues of MK2 are phosphorylated in vivo in response to stress, only four of the residues Thr25, Thr222, Ser272 and Thr334 are phosphorylated by p38 in an in vitro kinase assay. MK2 is serine-threonine protein kinase that contains a proline rich sequence and two putative SH3-binding sites. MK2 phosphorylates downstream components on a consensus Pro-X-Ser/Thr-Pro motif. The best-characterized MK2 substrate is hsp27. Although unknown, the physiological function of MK2 may be to increase stress resistance. MK2 is an essential component in the inflammatory response that regulates biosynthesis of TNF $\alpha$  at a post-transcriptional level and MK2 is rapidly phosphorylated and activated in response to cytokines, stress and chemotactic factors.

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** MAPK signaling pathway, Neurotrophin signaling pathway, VEGF signaling pathway

**Product images:**



Anti-MAPKAP Kinase 2 polyclonal antibody detects MK2 in unstimulated human HeLa whole cell lysate by WB. Polyclonal rabbit-anti-MAPKAP Kinase 2 used at 1:2000 to detect 20 ug of whole cell lysate containing MK2.