

## Product datasheet for **AP02538PU-N**

### MAPKAP Kinase 2 (MAPKAPK2) pThr334 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500~1/1000. Immunofluorescence: 1/100-1/200. Immunohistochemistry on Paraffin-Embedded Sections: 1/50-1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human MAPKAPK-2 around the phosphorylation site of threonine 334 (P-Q-TP-P-L).
Specificity:	This antibody detects endogenous levels of MAPKAPK-2 only when phosphorylated at Threonine 334.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	mitogen-activated protein kinase-activated protein kinase 2
Database Link:	<a href="#">Entrez Gene 9261 Human P49137</a>



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**Background:**

MAP kinase activated protein kinase 2 (MAPKAP Kinase 2), also known as p45 hsp27 kinase, is a 45-54 kDa serine/threonine protein kinase that contains a proline rich sequence and two putative SH3 binding sites. MAPKAP Kinase 2 is activated in response to stress, IL1 and TNF, possibly catalyzed by p38/Hog dependent phosphorylation. One of the major substrates of MAPKAP Kinase 2 is hsp27, which stimulates actin polymerization in order to facilitate recovery from destruction of cytoskeleton during cellular stresses. MAPKAP2 is implicated in several disorders including ischemic brain injury and heart failure and has been shown to be important in regulating stress resistance and the production of TNF alpha.

**Synonyms:**

MAPK-activated protein kinase 2, MAPKAP kinase 2, MAPKAPK-2, MK2, MAPKAPK2

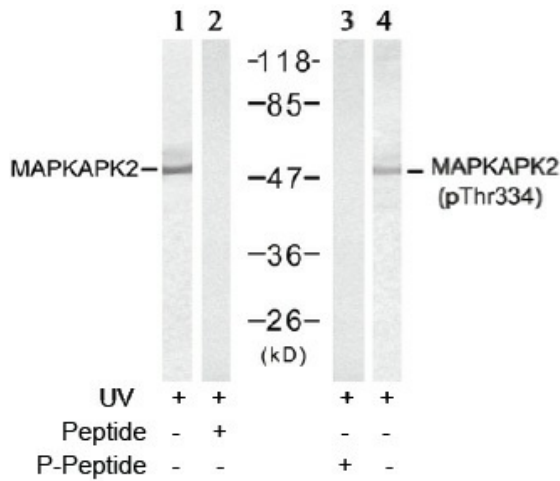
**Product images:**


Figure 2. Western blot analysis of extract from HeLa cells treated with UV (20min), using MAPKAPK-2 antibody (Lane 1 and 2) and MAPKAPK-2 pThr334 antibody (Lane 3 and 4).

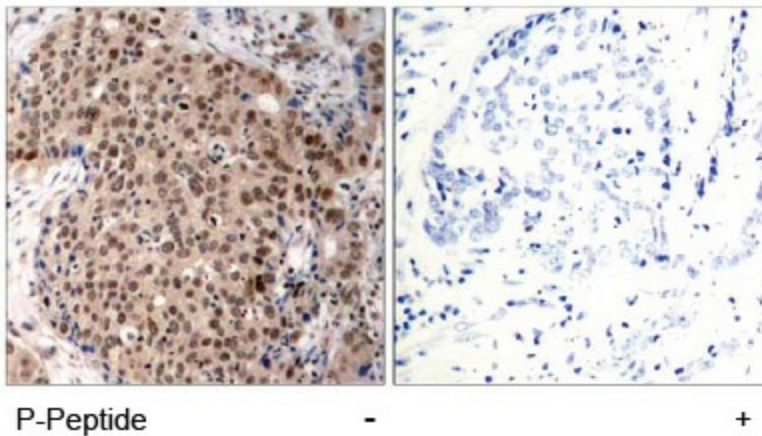


Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using MAPKAPK-2 pThr334 antibody

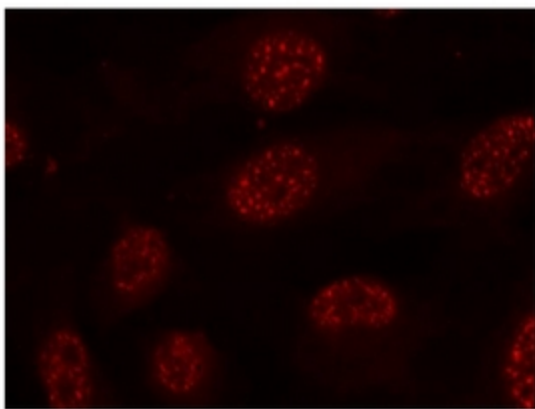


Figure 3. Immunofluorescence staining of methanol-fixed HeLa cells using MAPKAPK-2 pThr334 antibody (Red).