

Product datasheet for **AP02430PU-S**

MEK3 (MAP2K3) pSer189 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections: 1/50 - 1/100. Immunofluorescence: 1/100 - 1/200.
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human MKK3 around the phosphorylation site of serine 189 (V-D-SP-V-A).
Specificity:	MKK3 (phospho-Ser189) antibody detects endogenous levels of MKK3 only when phosphorylated at serine189.
Formulation:	PBS (without Mg ²⁺ and Ca ²⁺), 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:	Immunoaffinity chromatography.
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 kinase 3
Database Link:	Entrez Gene 5606 Human P46734



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Background:

MEK3 is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

Synonyms:

MAPKK 3, MEK3, MKK3, MAP kinase kinase 3

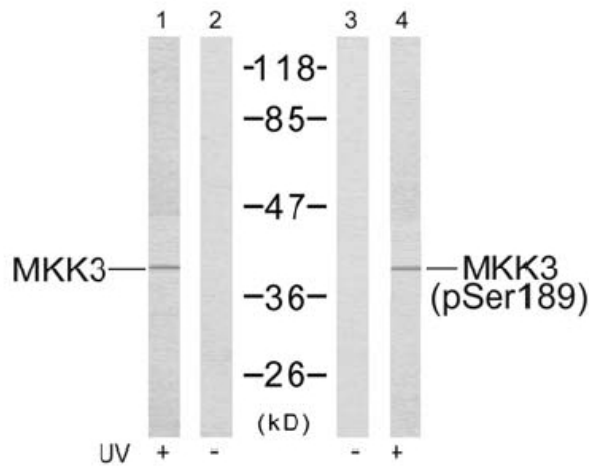
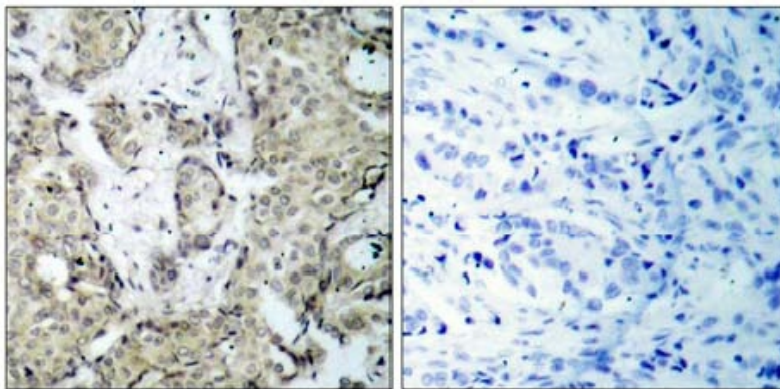
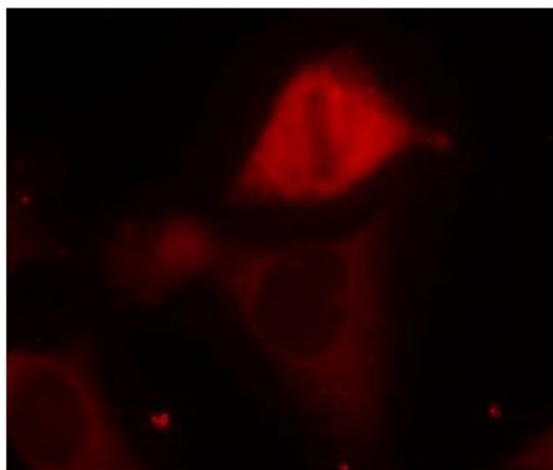
Product images:


Figure 2. Western blot analysis of extract from MDA-MB-435 cells untreated or treated with UV, using MKK3 antibody (Lane 1 and 2) and MKK3 (phospho-Ser189) antibody (AP02430P, Lane 3 and 4).



P-Peptide - +

Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using MKK3 (phospho-Ser189) antibody.



Immunofluorescence staining of methanol-fixed HeLa cells using MKK3 (pSer189) Antibody