

MEK-3 (phospho Ser218) rabbit pAb**Cat#: orb764232 (Manual)**

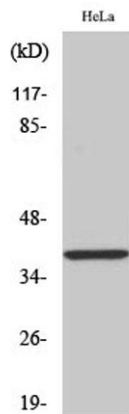
For research use only. Not intended for diagnostic use.

Product Name	MEK-3 (phospho Ser218) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human MKK3 around the phosphorylation site of Ser189. AA range:173-222
Specificity	Phospho-MEK-3 (S189) Polyclonal Antibody detects endogenous levels of MEK-3 protein only when phosphorylated at S189.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Dual specificity mitogen-activated protein kinase kinase 3
Gene Name	MAP2K3
Cellular localization	nucleoplasm,cytoplasm,cytosol,membrane,
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

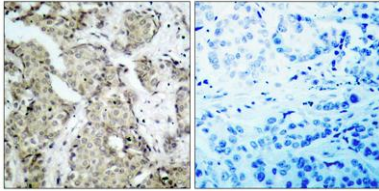
Concentration	1 mg/ml
Observed band	39kD
Human Gene ID	5606
Human Swiss-Prot Number	P46734
Alternative Names	MAP2K3; MEK3; MKK3; PRKMK3; SKK2; Dual specificity mitogen-activated protein kinase kinase 3; MAP kinase kinase 3; MAPKK 3; MAPK/ERK kinase 3; MEK 3; Stress-activated protein kinase kinase 2; SAPK kinase 2; SAPKK-2; SAPKK2

Background

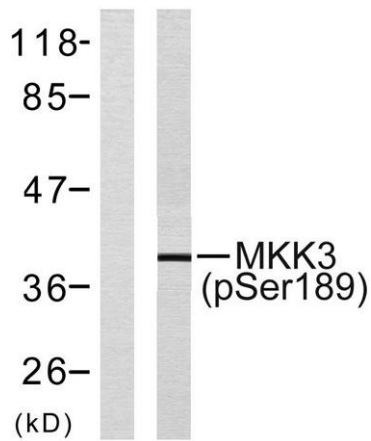
The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This 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*. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene. [provided by RefSeq, Jul 2008],



Western Blot analysis of various cells using Phospho-MEK-3 (S218) Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using MKK3 (Phospho-Ser189) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from MDA-MB-435 cells, using MKK3 (Phospho-Ser189) Antibody. The lane on the left is blocked with the phospho peptide.