

## Product datasheet for **AP55763PU-S**

### MEK3 (MAP2K3) pThr222 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1:500~1:1000. <b>Immunohistochemistry on paraffin sections:</b> 1:50~1:100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of threonine 222(A-K-T(p)-M-D) derived from Human MAP2K3 (KLH-conjugated)
Specificity:	The antibody detects endogenous levels of MAP2K3 only when phosphorylated at threonine 222.
Formulation:	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography using epitope-specific peptide
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	39 kDa
Gene Name:	mitogen-activated protein kinase kinase 3
Database Link:	<a href="#">Entrez Gene 5606 Human P46734</a>



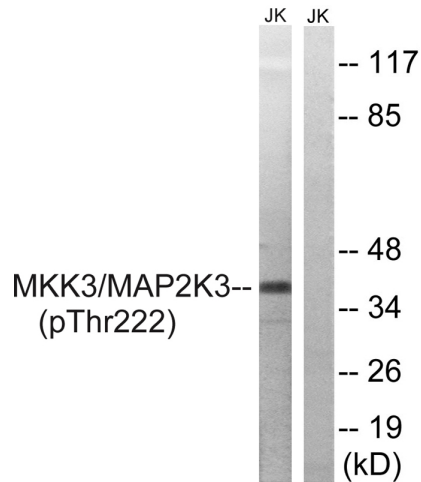
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**Background:**

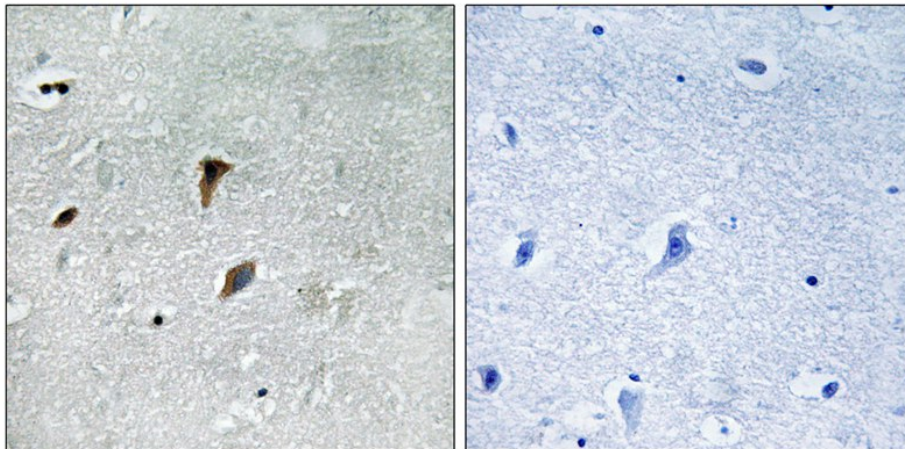
The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This 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.

**Synonyms:**

MAPKK 3, MEK3, MKK3, MAP kinase kinase 3

**Product images:**


Western blot analysis of extracts from Jurkat cells treated with serum using MAP2K3 (Phospho-Thr222) Antibody. The lane on the right is treated with the antigen-specific peptide.



Immunohistochemical analysis of paraffin-embedded human brain tissue using MAP2K3 (Phospho-Thr222) Antibody (left) or the same antibody preincubated with blocking peptide (right).