

## Product datasheet for **AP06221PU-M**

### MEK2 (MAP2K2) Rabbit Polyclonal Antibody

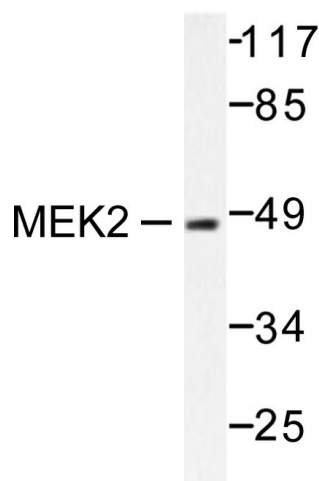
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200. <b>Immunoprecipitation:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 300-350 of Human MEF-2.
Specificity:	This antibody detects endogenous levels of MEK2 protein. (region surrounding Arg388)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 45 kDa
Gene Name:	mitogen-activated protein kinase kinase 2
Database Link:	<a href="#">Entrez Gene 26396 Mouse</a> <a href="#">Entrez Gene 58960 Rat</a> <a href="#">Entrez Gene 5605 Human</a> <a href="#">P36507</a>

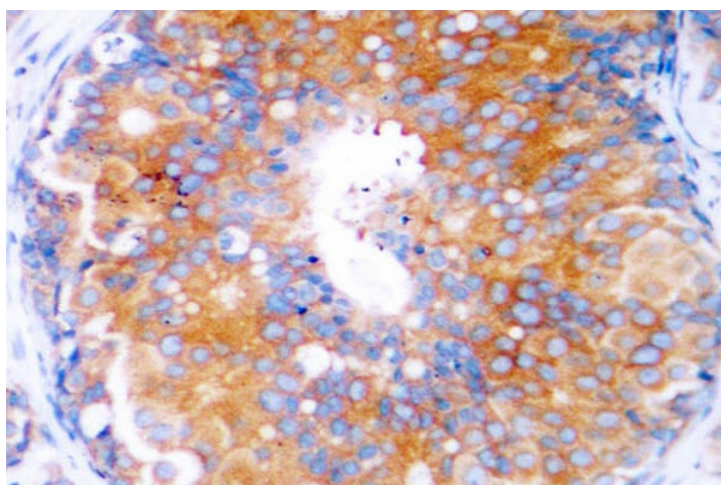


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<b>Background:</b>	Activation of extracellular signal-regulated kinase (ERK) or mitogen-activated protein kinase by MEK (mitogen-activated protein kinase or extracellular signal-regulated kinase kinase) is an essential event in the mitogenic growth factor-induced signal transduction pathway. Phosphorylation of MEKs correlates with their ability to phosphorylate and activate ErKs. MEK1 and MEK2 can also be activated by autophosphorylation. Lipopolysaccharide activates many of the MAPK family members of the immediate upstream MAPK activator MEK1, MEK2, and MEK3. In plants, MEK can phosphorylate and activate MAPK, and that Tyr phosphorylation is critical for the catalytic activity of MAPK in plants.
<b>Synonyms:</b>	MAP kinase kinase 2, ERK activator kinase 2, MAPK/ERK kinase 2, MEK2, MKK2, MAP kinase kinase 2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chronic myeloid leukemia, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pathways in cancer, Prion diseases, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Thyroid cancer, Toll-like receptor signaling pathway, Vascular smooth muscle contraction, VEGF signaling pathway

**Product images:**


Western blot (WB) analysis of MEK2 antibody in extracts from ovary cancer.



Immunohistochemistry (IHC) analyzes of MEK2 antibody in paraffin-embedded human breast carcinoma tissue.