

## Product datasheet for **AP20702PU-N**

### **MEK1 (MAP2K1) (+MAP2K2) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	Western blot: 1:500 - 1:1000. Immunohistochemistry on paraffin sections: 1:50 - 1:200.
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Specificity:</b>	This antibody detects endogenous levels of MEK1/2 protein. (region surrounding Ile215)
<b>Formulation:</b>	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
<b>Concentration:</b>	1.0 mg/ml
<b>Purification:</b>	Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	~ 43 kDa
<b>Gene Name:</b>	mitogen-activated protein kinase kinase 1
<b>Database Link:</b>	<u><a href="#">Entrez Gene 26395 Mouse</a></u> <u><a href="#">Entrez Gene 170851 Rat</a></u> <u><a href="#">Entrez Gene 5604 Human</a></u> <u><a href="#">Q02750</a></u>



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**Background:**

A family of protein kinases located upstream of the MAP kinases and responsible for their activation has been identified. The prototype member of this family, designated MAP kinase kinase, or MEK-1, specifically phosphorylates the MAP kinase regulatory threonine and tyrosine residues present in the Thr-Glu-Tyr motif of ERK. A second MEK family member, MEK-2, resembles MEK-1 in its substrate specificity. MEK-3 (or MKK-3) functions to activate p38 MAP kinase, and MEK-4 (also called SEK1 or MKK-4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK 5, whereas MEK-6 phosphorylates p38 and p38 $\beta$ . MEK-7 (or MKK-7) phosphorylates and activates the JNK signal transduction pathway.

**Synonyms:**

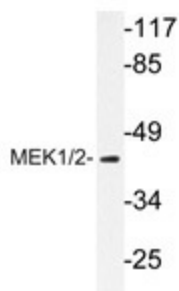
MAPKK 1, ERK activator kinase 1, MAPK/ERK kinase 1, MEK1, PRKMK1, MAP kinase kinase 1

**Protein Families:**

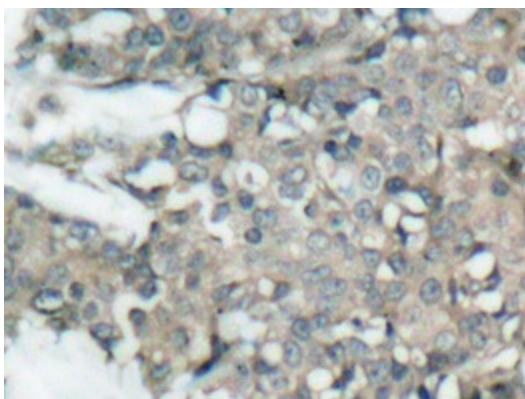
Druggable Genome, Protein Kinase

**Protein Pathways:**

Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, 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, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, 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 analyzes of MEK1/2 antibody (Cat.-No.: AP20702PU-N) in extracts from HT-29 cells.



Immunohistochemistry analyzes of MEK1/2 antibody (Cat.-No.: AP20702PU-N) in paraffin-embedded human breast carcinoma tissue.