



MEK-1 Polyclonal Antibody

E20-72711**Catalog Number:**E20-72711**Amount:**100ul**Applications:**WB;IHC;IF;ELISA**Reactivity:**Human;Mouse;Rat**Target:**MEK-1

Fields:>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>MAPK signaling pathway;>>ErbB signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Chemokine signaling pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Sphingolipid signaling pathway;>>Phospholipase D signaling pathway;>>Oocyte meiosis;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>Apoptosis;>>Cellular senescence;>>Vascular smooth muscle contraction;>>VEGF signaling pathway;>>Apelin signaling pathway;>>Osteoclast differentiation;>>Focal adhesion;>>Gap junction;>>Signaling pathways regulating pluripotency of stem cells;>>Neutrophil extracellular trap formation;>>Toll-like receptor signaling pathway;>>Natural killer cell mediated cytotoxicity;>>T cell receptor signaling pathway;>>B cell receptor signaling pathway;>>Fc epsilon RI signaling pathway;>>Fc gamma R-mediated phagocytosis;>>TNF signaling pathway;>>Lon

Gene Name:MAP2K1**Protein Name:**Dual specificity mitogen-activated protein kinase kinase 1**Human Gene Id:**5604**Human Swiss Prot No:**Q02750**Mouse Gene Id:**26395**Mouse Swiss Prot No:**P31938**Rat Gene Id:**170851**Rat Swiss Prot No:**Q01986

Immunogen:The antiserum was produced against synthesized peptide derived from human MEK1. AA range:252-301

Specificity:MEK-1 Polyclonal Antibody detects endogenous levels of MEK-1 protein.

Formulation:Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source:Polyclonal, Rabbit,IgG

Dilution:WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

Purification:The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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Concentration:1 mg/ml

Storage Stability:-15°C to -25°C/1 year(Do not lower than -25°C)

Other Name:MAP2K1;MEK1;PRKMK1;Dual specificity mitogen-activated protein kinase kinase 1;MAP kinase kinase 1;MAPKK 1;MKK1;ERK activator kinase 1;MAPK/ERK kinase 1;MEK 1

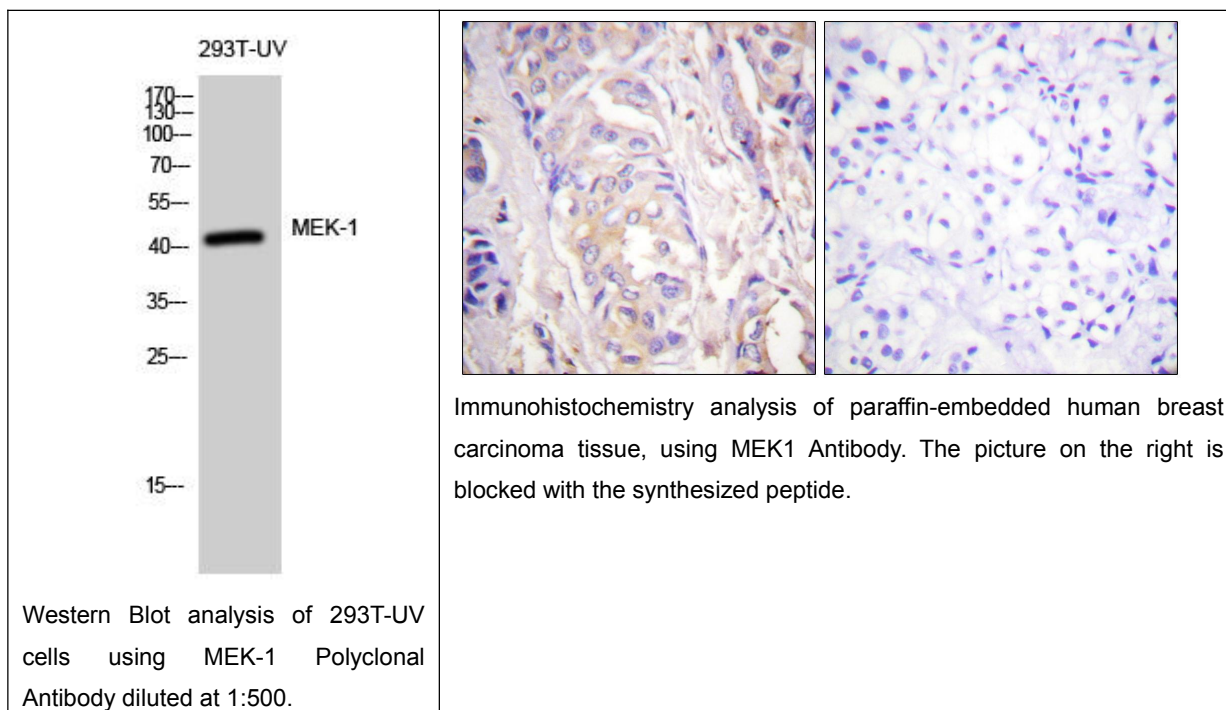
Observed Band(KD):43kD

Background:The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. [provided by RefSeq, Jul 2008]

Function:catalytic activity:ATP + a protein = ADP + a phosphoprotein..disease:Defects in MAP2K1 are a cause of cardiofaciocutaneous syndrome (CFC syndrome) [MIM:115150]; also known as cardio-facio-cutaneous syndrome. CFC syndrome is characterized by a distinctive facial appearance, heart defects and mental retardation. Heart defects include pulmonic stenosis, atrial septal defects and hypertrophic cardiomyopathy.

Subcellular Location:Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, microtubule organizing center, spindle pole body . Cytoplasm . Nucleus . Membrane ; Peripheral membrane protein . Localizes at centrosomes during prometaphase, midzone during anaphase and midbody during telophase/cytokinesis (PubMed:14737111). Membrane localization is probably regulated by its interaction with KSR1 (PubMed:10409742).

Expression:Widely expressed, with extremely low levels in brain.



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