

#### OriGene Technologies, Inc.

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# Product datasheet for TA505745M

## MEK1 (MAP2K1) Mouse Monoclonal Antibody [Clone ID: OTI2B2]

### **Product data:**

| Product Type:           | Primary Antibodies   |  |  |
|-------------------------|--|--|--|
| Clone Name:             | OTI2B2   |  |  |
| Applications:           | IF, IHC, WB  |  |  |
| Recommended Dilution:   | WB 1:200~2000, IHC 1:150, IF 1:100   |  |  |
| Reactivity:             | Human, Dog, Rat, Monkey, Mouse   |  |  |
| Host:                   | Mouse  |  |  |
| lsotype:                | lgG2a  |  |  |
| Clonality:              | Monoclonal   |  |  |
| Immunogen:              | Full length human recombinant protein of human MAP2K1(NP_002746) produced in<br>HEK293T cell.  |  |  |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.   |  |  |
| Concentration:          | 1 mg/ml  |  |  |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography<br>(protein A/G)   |  |  |
| Conjugation:            | Unconjugated   |  |  |
| Storage:                | Store at -20°C as received.  |  |  |
| Stability:              | Stable for 12 months from date of receipt.   |  |  |
| Predicted Protein Size: | 43.3 kDa   |  |  |
| Gene Name:              | mitogen-activated protein kinase kinase 1  |  |  |
| Database Link:          | <u>NP 002746</u><br><u>Entrez Gene 26395 MouseEntrez Gene 170851 RatEntrez Gene 478347 DogEntrez Gene</u><br><u>710415 MonkeyEntrez Gene 5604 Human</u><br><u>Q02750</u> |  |  |



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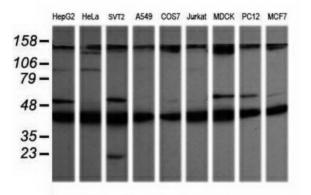
#### MEK1 (MAP2K1) Mouse Monoclonal Antibody [Clone ID: OTI2B2] - TA505745M **Background:** The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated 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. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq, Jul CFC3; MAPKK1; MEK1; MKK1; PRKMK1 Synonyms: **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 Rmediated 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,

## **Product images:**

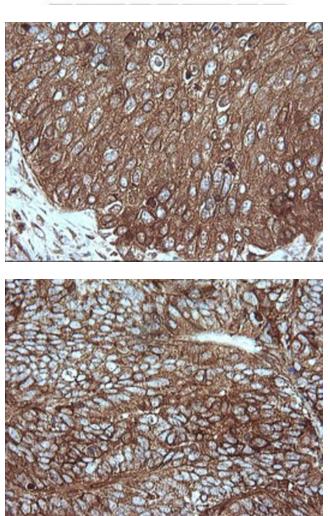
|     |   | Contraction of Contractor |
|-----|---|---------------------------|
| 170 | - |                           |
| 130 | - |                           |
| 100 | - |                           |
| 70  | - |                           |
| 55  | - |                           |
| 40  | - |                           |
| 35  | - |                           |
| 25  | - |                           |
| 15  | - |                           |
| 10  | _ |                           |

VEGF signaling pathway

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MAP2K1 ([RC218460], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAP2K1. Positive lysates [LY400974] (100ug) and [LC400974] (20ug) can be purchased separately from OriGene.

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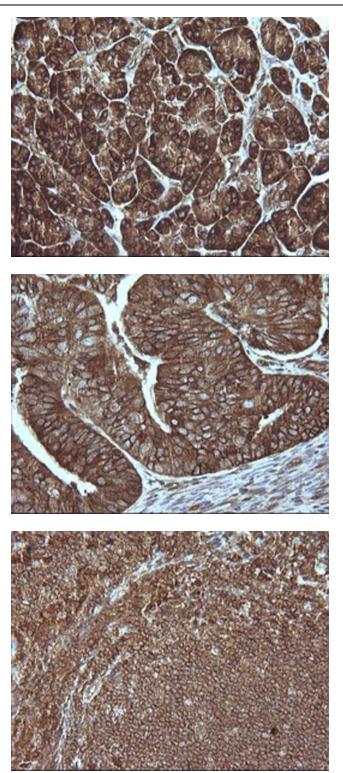
Western blot analysis of extracts (35ug) from 9 different cell lines by usin g anti-MAP2K1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-MAP2K1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human ovary tissue using anti-MAP2K1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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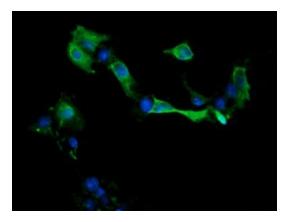
Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-MAP2K1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-MAP2K1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-MAP2K1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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Anti-MAP2K1 mouse monoclonal antibody ([TA505745]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MAP2K1 ([RC218460]).

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