Immunotag™ MEK-1 Polyclonal Antibody

| Antibody Specification | |
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| Catalog No. | ITT5808 |
| Product Description | Immunotag™ MEK-1 Polyclonal Antibody |
| Size | 50 μg, 100 μg |
| Conjugation | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647 |
| IMPORTANT NOTE | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein | MEK-1 |
| Clonality | Polyclonal |
| Storage/Stability | -20°C/1 year |
| Application | WB,ELISA |
| Recommended Dilution | WB 1:500-2000, ELISA 1:10000-20000 |
| Concentration | 1 mg/ml |
| Reactive Species | Human,Mouse,Rat |
| Host Species | Rabbit |
| Immunogen | Synthetic peptide from human protein at AA range: 330-410 |
| Specificity | The antibody detects endogenous MEK-1 protein |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen |
| Form | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Gene Name | MAP2K1 MEK1 PRKMK1 |
| Accession No. | Q02750 P31938 Q01986 |
| Alternate Names | MAP2K1 MEK1 PRKMK1 |

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| Description | mitogen-activated protein kinase kinase 1(MAP2K1) Homo sapiens 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 2008], |
| Cell Pathway/ Category | MAPK_ERK_Growth,MAPK_G_Protein,ErbB_HER,Chemokine,Oocyte meiosis,Vascular smooth muscle contraction,Dorso-ventral axis formation,VEGF,Focal adhesion,Gap junction,Toll_Like,Natural killer cell mediated cytotoxicity,T_Cell_Receptor,B_Cell_Antigen,Fc epsilon RI,Fc gamma R-mediated phagocytosis,Long-term potentiation,Neurotrophin,Long-term depression,Regulates Actin and Cytoskeleton,Insulin_Receptor,GnRH,Progesterone-mediated oocyte maturation,Melanogenesis,Prion diseases,Pathways in cancer,Colorectal cancer,Renal cell carcinoma,Pancreatic cancer,Endometrial cancer,Glioma,Prostate cancer,Thyroid cancer,Melanoma,Bladder cancer,Chronic myeloid leukemia,Acute myeloid leukemia,Non-small cell lung cancer, |
| Protein Expression | Brain,PCR rescued clones, |
| Subcellular Localization | nucleus,cytoplasm,mitochondrion,early endosome,late endosome,endoplasmic reticulum,Golgi apparatus,microtubule organizing center,spindle pole body,cytosol,plasma membrane,focal adhesion,extrace |
| Protein Function | catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease:Defects in MAP2K1 are a cause of cardiofaciocutaneous syndrome (CFC syndrome) [MIM:15150]; 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. Some affected individuals present with ectodermal abnormalities such as sparse, friable hair, hyperkeratotic skin lesions and a generalized ichthyosis-like condition. Typical facial features are similar to Noonan syndrome. They include high forehead with bitemporal constriction, hypoplastic supraorbital ridges, downslanting palpebral fissures, a depressed nasal bridge, and posteriorly angulated ears with prominent helices. The inheritance of CFC syndrome is autosomal dominant.,enzyme regulation:Activated by phosphorylation.,function:Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates ERK1 and ERK2 MAP kinases.,PTM:Acetylation by Yersinia yopJ prevents phosphorylation and activation, thus blocking the MAPK signaling pathway.,PTM:Phosphorylation on Ser/Thr by MAP kinase kinase (RAF or MEKK1) regulates positively the kinase activity.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with MORG1 (By similarity). Interacts with Yersinia yopJ., |
| Usage | For Research Use Only! Not for diagnostic or therapeutic procedures. |