

Immunotag™ MEK2 Rabbit Polyclonal Antibody

Antibody Specification	
Catalog No.	ITM3723
Product Description	Immunotag™ MEK2 Rabbit 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-2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p
Recommended Dilution	WB 1:500-2000,IHC-p 1:50-300
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	Recombinant Protein of MEK2
Specificity	The antibody detects endogenous MEK2 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	MAP2K2 MEK2 MKK2 PRKMK2
Accession No.	P36507 Q63932
Alternate Names	Dual specificity mitogen-activated protein kinase kinase 2 (MAP kinase kinase 2) (MAPKK 2) (EC 2.7.12.2) (ERK activator kinase 2) (MAPK/ERK kinase 2) (MEK 2)

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Description	mitogen-activated protein kinase kinase 2(MAP2K2) Homo sapiens The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008],
Cell Pathway/ Category	MAPK_ERK_Growth,MAPK_G_Protein,ErbB_HER,Vascular smooth muscle contraction,VEGF,Gap junction,Toll_Like,Natural killer cell mediated cytotoxicity,T_Cell_Receptor,B_Cell_Antigen,Fc epsilon RI,Long-term potentiation,Neurotrophin,Long-term depression,Regulates Actin and Cytoskeleton,Insulin_Receptor,GnRH,Melanogenesis,Prion diseases,Pathways in cancer,Renal cell carcinoma,Endometrial cancer,Glioma,Prostate cancer,Thyroid cancer,Melanoma,Bladder cancer,Chronic myeloid leukemia,Acute myeloid leukemia,Non-small cell lung cancer,
Protein Expression	Colon carcinoma,Epithelium,Human cerebellum,Muscle,Platelet
Subcellular Localization	extracellular region,nucleus,cytoplasm,mitochondrion,early endosome,late endosome,peroxisomal membrane,endoplasmic reticulum,Golgi apparatus,cytosol,microtubule,cell-cell junction,focal adhesio
Protein Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease:Defects in MAP2K2 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. 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.,function:Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases.,PTM:MAPKK is itself dependent on Ser/Thr phosphorylation for activity catalyzed by MAP kinase kinase kinases (RAF or MEKK1).,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with MORG1.,
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