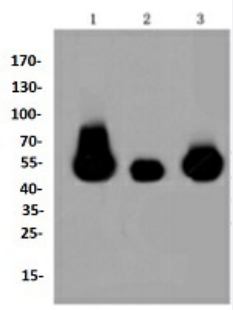
RecomAb™

MAP2K2 recombinant monoclonal antibody

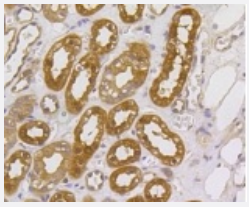
Catalog # RAB02698 Size 100 uL

Applications



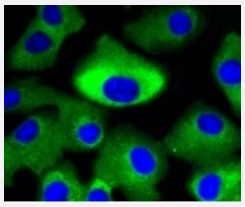
Western Blot (Cell lysate)

Western blot analysis of Lane1:HepG2 whole cell lysate Lane2:PC12 whole cell lysate Lane3:NIH/3T3 whole cell lysate with MAP2K2 recombinant monoclonal antibody (Cat # RAB02698) at 1:1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human kidney tissue using MAP2K2 recombinant monoclonal antibody (Cat # RAB02698). Counter stained with hematoxylin.



Immunocytochemistry

Immunocytochemical staining of A549 cells using MAP2K2 recombinant monoclonal antibody (Cat # RAB02698)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against MAP2K2.

Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant MAP2K2.
Theoretical MW (kDa)	43
Reactivity	Human, Mouse, Rat, Zebra fish
Specificity	This antibody detects endogenous levels of MEK1/2 and does not cross-react with related proteins.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Immunofluorescence

Gene Info — MAP2K2

Entrez GeneID	5605
Protein Accession#	P36507;Q02750
Gene Name	MAP2K2
Gene Alias	FLJ26075, MAPKK2, MEK2, MKK2, PRKMK2
Gene Description	mitogen-activated protein kinase kinase 2
Omim ID	115150 601263
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	ERK activator kinase 2|MAP kinase kinase 2|MAPK/ERK kinase 2|dual specificity mitogen-activated protein kinase kinase 2|mitogen-activated protein kinase kinase 2, p45

Pathway

- Acute myeloid leukemia
- B cell receptor signaling pathway
- Bladder cancer
- Chronic myeloid leukemia
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- 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
- Pathways in cancer
- Prion diseases
- 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

Disease

- Abnormalities
- Ectodermal Dysplasia
- Genetic Predisposition to Disease
- Glioma

- Heart Defects
- LEOPARD Syndrome
- Mental Retardation
- Noonan Syndrome
- Skin Abnormalities
- Syndrome