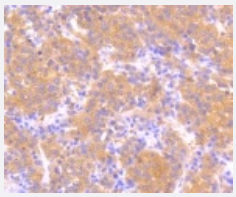
RecomAb™

MAP2K1 (phospho S218/S222) recombinant monoclonal antibody

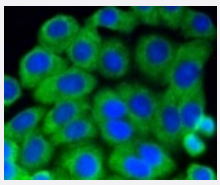
Catalog # RAB02767 Size 100 uL

Applications



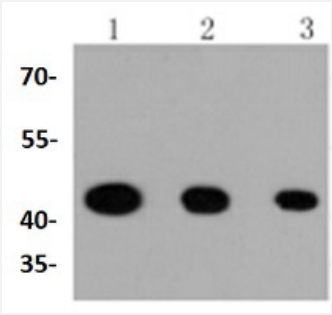
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using MAP2K1 (phospho S218/S222) recombinant monoclonal antibody (Cat # RAB02767). Counter stained with hematoxylin.



Immunocytochemistry

Immunocytochemical staining of HepG2 cells using MAP2K1 (phospho S218/S222) recombinant monoclonal antibody (Cat # RAB02767)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.



Western Blot (Cell lysate)

Western blot analysis of Lane1:A431 whole cell lysate Lane2:Hela whole cell lysate Lane3:293T whole cell lysate with MAP2K1 (phospho S218/S222) recombinant monoclonal antibody (Cat # RAB02767) at 1:1000 dilution.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against MAP2K1.

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Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant MAP2K1.
Theoretical MW (kDa)	43
Reactivity	Human
Specificity	This antibody detects endogenous levels of MEK1 protein only when phosphorylated at Ser218 and/or Ser222.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
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 (1:1000-1:2000) 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 should be handled by trained staff only.

Applications

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

  Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using MAP2K1 (phospho S218/S222) recombinant monoclonal antibody (Cat # RAB02767). Counter stained with hematoxylin.

- Immunofluorescence

- Immunocytochemistry

  Immunocytochemical staining of HepG2 cells using MAP2K1 (phospho S218/S222) recombinant monoclonal antibody (Cat # RAB02767)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

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- Flow Cytometry

- Western Blot (Cell lysate)

  Western blot analysis of Lane1:A431 whole cell lysate Lane2:Hela whole cell lysate Lane3:293T whole cell lysate with MAP2K1 (phospho S218/S222) recombinant monoclonal antibody (Cat # RAB02767) at 1:1000 dilution.

Gene Info — MAP2K1

Entrez GeneID	5604
Protein Accession#	Q02750
Gene Name	MAP2K1
Gene Alias	MAPKK1, MEK1, MKK1, PRKMK1
Gene Description	mitogen-activated protein kinase kinase 1
Omim ID	176872
Gene Ontology	Hyperlink
Gene Summary	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 extracellu lar signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. T his protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kin ases upon wide variety of extra- and intracellular signals. As an essential component of MAP kina se signal transduction pathway, this kinase is involved in many cellular processes such as prolifer ation, differentiation, transcription regulation and development. [provided by RefSeq
Other Designations	protein kinase, mitogen-activated, kinase 1 (MAP kinase kinase 1)

Pathway

- Acute myeloid leukemia
- B cell receptor signaling pathway
- Bladder cancer
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer

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- Dorso-ventral axis formation
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated 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
- Pancreatic cancer
- Pathways in cancer
- Prion diseases
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway
- Thyroid cancer

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- Toll-like receptor signaling pathway
- Vascular smooth muscle contraction
- VEGF signaling pathway

Disease

- Abnormalities
- Adenocarcinoma
- Carcinoma
- Cognition Disorders
- Developmental Disabilities
- Ectodermal Dysplasia
- Genetic Predisposition to Disease
- Glioma
- Heart Defects
- LEOPARD Syndrome
- Lung Neoplasms
- Mental Retardation
- Noonan Syndrome
- Pancreatic Neoplasms
- Skin Abnormalities
- Syndrome

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