MAP2K1/MAP2K2 (Human) Cell-Based ELISA Kit

Catalog # KA2917 Size 1 Kit

Specification

Product Description	MAP2K1/MAP2K2 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of MAP2K1/MAP2K2 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — MAP2K1

Entrez GeneID	5604
Protein Accession#	Q02750 (Gene ID : 5604);P36507 (Gene ID : 5605)
Gene Name	MAP2K1
Gene Alias	MAPKK1, MEK1, MKK1, PRKMK1
Gene Description	mitogen-activated protein kinase kinase 1

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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 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
Other Designations	protein kinase, mitogen-activated, kinase 1 (MAP kinase kinase 1)

Gene Info — MAP2K2

Entrez GeneID	5605
Protein Accession#	Q02750 (Gene ID : 5604);P36507 (Gene ID : 5605)
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

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- Acute myeloid leukemia
- B cell receptor signaling pathway
- B cell receptor signaling pathway
- Bladder cancer
- Bladder cancer
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Chronic myeloid leukemia
- Colorectal cancer
- Dorso-ventral axis formation
- Endometrial cancer
- Endometrial cancer
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Gap junction
- Gap junction
- Glioma
- Glioma
- GnRH signaling pathway
- GnRH signaling pathway
- Insulin signaling pathway
- Insulin signaling pathway
- Long-term depression

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- Long-term depression
- Long-term potentiation
- Long-term potentiation
- MAPK signaling pathway
- MAPK signaling pathway
- Melanogenesis
- Melanogenesis
- Melanoma
- Melanoma
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prion diseases
- Prion diseases
- Prostate cancer
- Prostate cancer
- Regulation of actin cytoskeleton
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- Renal cell carcinoma

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- T cell receptor signaling pathway
- T cell receptor signaling pathway
- Thyroid cancer
- Thyroid cancer
- Toll-like receptor signaling pathway
- Toll-like receptor signaling pathway
- Vascular smooth muscle contraction
- Vascular smooth muscle contraction
- VEGF signaling pathway
- VEGF signaling pathway

Disease

- Abnormalities
- Abnormalities
- Adenocarcinoma
- Carcinoma
- Cognition Disorders
- Developmental Disabilities
- Ectodermal Dysplasia
- Ectodermal Dysplasia
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glioma
- Glioma
- Heart Defects
- Heart Defects

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- LEOPARD Syndrome
- LEOPARD Syndrome
- Lung Neoplasms
- Mental Retardation
- Mental Retardation
- Noonan Syndrome
- Noonan Syndrome
- Pancreatic Neoplasms
- Skin Abnormalities
- Skin Abnormalities
- Syndrome
- Syndrome

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