

Recombinant Human MAP2K2, GST-tagged, Active

Cat. No. MAP2K2-350H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MEK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 71 kDa.
Species	Human
Source	Sf9 Cells
Description	MEK2 is the member of MAPK kinase (MAPKK) family of signaling protein kinases. MEK2 is a dual-specificity kinase that activates the extracellular signal-regulated kinase (ERK) and mitogen-activated protein (MAP) kinase upon agonist binding to receptors. MEK2 plays a key role in the Ras/Raf/MEK/ERK mitogen-activated protein kinase (MAPK) signaling pathways. Approximately 30% of all human cancers have a constitutively activated MAPK pathway, and constitutive activation of MEK2 results in cellular transformation. The ERK/MAP kinase cascade regulates cell growth and differentiation.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

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Gene Name	MAP2K2 mitogen-activated protein kinase kinase 2 [Homo sapiens]
Synonyms	MAP2K2; mitogen-activated protein kinase kinase 2; MEK2; MKK2; MAPKK2; PRKMK2; FLJ26075; MAPK/ERK kinase 2; MAP kinase kinase 2; ERK activator kinase 2; mitogen-activated protein kinase kinase 2, p45; dual specificity mitogen-activated protein kinase kinase 2; EC 2.7.12.2; mitogen-activated protein kinase kinase 2
Gene ID	5605
mRNA Refseq	NM_030662
Protein Refseq	NP_109587
MIM	601263
UniProt ID	P36507
Chromosome Location	19p13.3
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; VEGF signaling pathway; Vascular smooth muscle contraction

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Function

ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein tyrosine kinase activity; transferase activity

PDB rendering based on 1s9i.



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