

MEK2 recombinant protein

MEK2, Unactive recombinant protein

CATALOG # AAA72937	APPLICATIONS Western Blot
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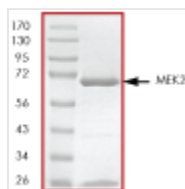
PRODUCT SYNONYMS

MEK2; Unactive recombinant protein; MAP2K2; MKK2; PRKMK2; MAPKK2; MEK2 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	>90%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Concentration	0.2 ug/ul (varies by lot)
Sequence Length	1759
Applicable Applications for MEK2 recombinant protein	WB (Western Blot), Kinase Assay
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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. Product shipped on dry ice.

IMAGES



SDS-PAGE

The purity of MEK2 was determined to be >90% by densitometry, approx MW ~71kDa

ADDITIONAL INFORMATION

Related Product Information for MEK2 recombinant protein	Recombinant full-length human MEK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: 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 (1). 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 (2).
Product Categories/Family for MEK2 recombinant protein	Unactive Kinase; Signaling Proteins - Unactive Kinases

References	1. Shuichan, Xu et al: Differential Regulation of Mitogen-Activated Protein/ERK Kinase (MEK)1 and MEK2 and Activation by a Ras-Independent Mechanism. Mol. Endocrinol. 1997;11 (11): 1618-1625. 2. Louis-Franaçois, B, et al: Mek2 Is Dispensable for Mouse Growth and Development. Mol. Cellular Biol. 2003; 23 (14): 4778-4787.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	187171274
NCBI GeneID	5605
NCBI Accession #	NP_109587.1
NCBI GenBank Nucleotide #	NM_030662
UniProt Accession #	P36507
Molecular Weight	~71 kDa
NCBI Official Full Name	Homo sapiens mitogen-activated protein kinase kinase 2 (MAP2K2), mRNA
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 2
NCBI Official Symbol	MAP2K2
NCBI Official Synonym Symbols	CFC4; MEK2; MKK2; MAPKK2; PRKMK2
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 2; MAPK/ERK kinase 2; MAP kinase kinase 2; ERK activator kinase 2; mitogen-activated protein kinase kinase 2, p45
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 2
UniProt Gene Name	MAP2K2
UniProt Synonym Gene Names	MEK2; MKK2; PRKMK2; MAP kinase kinase 2; MAPKK 2; MEK 2
UniProt Entry Name	MP2K2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.