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Product datasheet for AR50344PU-N

MAPKK 2 (1-400, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	MAPKK 2 (1-400, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSHMLARRK PVLPALTINP TIAEGPSPTS EGASEANLVD LQKKLEELEL DEQQKKRLEA FLTQKAKVGE LKDDDFERIS ELGAGNGGVV TKVQHRPSGL IMARKLIHLE IKPAIRNQII RELQVLHECN SPYIVGFYGA FYSDGEISIC MEHMDGGSLD QVLKEAKRIP EEILGKVSIA VLRGLAYLRE KHQIMHRDVK PSNILVNSRG EIKLCDFGVS GQLIDSMANS FVGTRSYMAP ERLQGTHYSV QSDIWSMGLS LVELAVGRYP IPPPDAKELE AIFGRPVVDG EEGEPHSISP RPRPPGRPVS GHGMDSRPAM AIFELLDYIV NEPPPKLPNG VFTPDFQEFV NKCLIKNPAE RADLKMLTNH TFIKRSEVEE VDFAGWLCKT LRLNQPGTPT RTAV
Tag:	His-tag
Predicted MW:	46.9 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human MAP2K2 proetin, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_109587
Locus ID:	5605
UniProt ID:	P36507
Cytogenetics:	19p13.3

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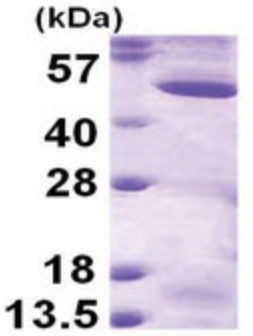
Synonyms: MAP kinase kinase 2, ERK activator kinase 2, MAPK/ERK kinase 2, MEK2, MKK2, MAP kinase kinase 2

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, cognitive disability, 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, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: 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

Product images:



15% SDS-PAGE (3ug)