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Product datasheet for AR50125PU-S

MAP kinase p38 alpha / MAPK14 (1-360, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	MAP kinase p38 alpha / MAPK14 (1-360, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMSQERPT FYRQELNKTI WEVPERYQNL SPVGSGAYGS VCAAFDTKTG LRVAVKKLSR PFQSIIHAKR TYRELRLLKH MKHENVIGLL DVFTPARSLE EFNDVYLVTH LMGADLNNIV KCQKLTDDHV QFLIYQILRG LKYIHSADII HRDLKPSNLA VNEDCELKIL DFGLARHTDD EMTGYVATRW YRAPEIMLNW MHYNQTVDIW SVGCIMAELL TGRTLFPGTD HIDQLKLILR LVGTPGAELL KKISSESARN YIQSLTQMPK MNFANVFIGA NPLAVDLLEK MLVLDSDKRI TAAQALAHAY FAQYHDPDDE PVADPYDQSF ESRDLLIDEW KSLTYDEVIS FVPPPLDQEE MES
Tag:	His-tag
Predicted MW:	43.7 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 1 mM DTT, 10% glycerol, 100 mM NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human MAPK14 protein, 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_001306
Locus ID:	1432
UniProt ID:	Q16539, L7RSM2
Cytogenetics:	6p21.31

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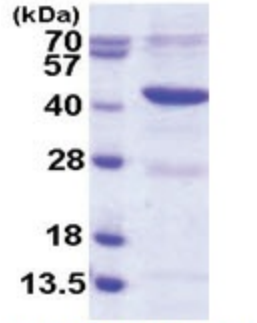
Synonyms: CSBP; CSBP1; CSBP2; CSPB1; EXIP; Mxi2; p38; p38ALPHA; PRKM14; PRKM15; RK; SAPK2A

Summary: The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway

Product images:



15% SDS-PAGE (3ug)