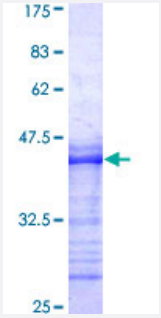
MAPK7 (Human) Recombinant Protein (Q01)

Catalog # H00005598-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MAPK7 partial ORF (AAH07404, 561 a.a. - 677 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	PQSSMSESPDVNLVTQQLSKSQVEDPLPPVFSGTPKGSGAGYGVGFDLEEFLNQSFDMGVAD GPQDGQADSASLSASLLADWLEGHGMNPADIESLQREIQMDSPMLLADLPDLQDP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	38.50
Interspecies Antigen Sequence	Mouse (97)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MAPK7

Entrez GeneID	5598
GeneBank Accession#	BC007404
Protein Accession#	AAH07404
Gene Name	MAPK7
Gene Alias	BMK1, ERK4, ERK5, PRKM7
Gene Description	mitogen-activated protein kinase 7
Omim ID	602521
Gene Ontology	Hyperlink
Gene 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 pro cesses such as proliferation, differentiation, transcription regulation and development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is invol ved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracelluar signals, this kinase transloc ates to cell nucleus, where it regulates gene expression by phosphorylating, and activating differe nt transcription factors. Four alternatively spliced transcript variants of this gene encoding two disti nct isoforms have been reported. [provided by RefSeq
Other Designations	BMK1 kinase|OTTHUMP00000065906|big MAP kinase 1|extracellular-signal-regulated kinase 5

Pathway

- Gap junction

- GnRH signaling pathway
- MAPK signaling pathway
- Neurotrophin signaling pathway

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema