

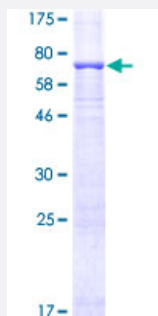
Full-Length

MAPK3 (Human) Recombinant Protein (P01)

Catalog # H00005595-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MAPK3 full-length ORF (AAH13992.1, 1 a.a. - 379 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAAAAQGGGGGEPRREGVGPVGPGEVEMVKGQPFDVGPRTQLQYIGEGAYGMVSSAYDH
VRKTRVAIKKISPFHQTYCQRTLREIQILLRFRHENVIGIRDILRASTLEAMRDVYVQDLMETDLYKL
LKSQQLSNDHICYFLYQILRGLKYIHSANVLHRDLKPSNLLINTCDLKICDFGLARIADPEHDHTGFL
TEYVATRWRAPPEIMLSKGYTKSIDWSVGCILAEMLSNRPIFPKGHYLDQLNHILGILGSPSQEDL
NCIINMKARNYLQSLPSKTKVAWAKLFPKSDSKALDLLDRMLTFNPNKRITVEEALAHPLYEQYYD
PTDEPVAEEPFTFAMELDDLPERLKERLKEIFQETARFQPGVLEAP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

69.5

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 — MAPK3

Entrez GeneID	5595
GeneBank Accession#	BC013992.1
Protein Accession#	AAH13992.1
Gene Name	MAPK3
Gene Alias	ERK1, HS44KDAP, HUMKER1A, MGC20180, P44ERK1, P44MAPK, PRKM3
Gene Description	mitogen-activated protein kinase 3
Omim ID	601795
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq]
Other Designations	OTTHUMP00000174538 OTTHUMP00000174540 extracellular signal-regulated kinase 1 extracellular signal-related kinase 1

Pathway

- [Acute myeloid leukemia](#)
- [Adherens junction](#)
- [Axon guidance](#)
- [B cell receptor signaling pathway](#)
- [Bladder cancer](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Dorso-ventral axis formation](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Insulin signaling pathway](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Melanoma](#)
- [mTOR signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)

- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prion diseases](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)
- [TGF-beta signaling pathway](#)
- [Thyroid cancer](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)
- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)

Disease

- [Asthma](#)
- [Autistic Disorder](#)
- [Disease Models](#)
- [Genetic Predisposition to Disease](#)