Recombinant Human MAPK3

Cat. No. MAPK3-36H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length tag-free human ERK1 was expressed in E. coli cells.
Species	Human
Source	E.coli
Description	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.
Form	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.
Molecular Mass	~44 kDa
Purity	>90%
Applications	Kinase Assay; Western Blot
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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	performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.2 ug/ul

GENE INFORMATION

Gene Name	MAPK3 mitogen-activated protein kinase 3 [Homo sapiens (human)]
Official Symbol	MAPK3
Synonyms	MAPK3; mitogen-activated protein kinase 3; ERK1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; MGC20180; EC 2.7.11.24; Extracellular signal-regulated kinase 1; Insulin-stimulated MAP2 kinase; MAP kinase 1; Microtubule-associated protein 2 kinas; OTTHUMP00000174538; OTTHUMP00000174540; Microtubule-associated protein 2 kinase
Gene ID	5595
mRNA Refseq	NM_002746
Protein Refseq	NP_002737
MIM	601795
UniProt ID	P27361
Chromosome Location	16p11.2
Pathway	AGE/RAGE pathway; ALK1 signaling events; ATF-2 transcription factor network
Function	ATP binding; MAP kinase activity; phosphatase binding

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