

## Recombinant Human MAPK12

Cat. No. MAPK12-31377TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human SAPK3 with a N-terminal tag.
<b>Species</b>	Human
<b>Description</b>	Activation of members of the mitogen-activated protein kinase family is a major mechanism for transduction of extracellular signals. Stress-activated protein kinases are one subclass of MAP kinases. The protein encoded by this gene functions as a signal transducer during differentiation of myoblasts to myotubes.
<b>Tissue specificity</b>	Highly expressed in skeletal muscle and heart.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.

### GENE INFORMATION

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<b>Gene Name</b>	MAPK12 mitogen-activated protein kinase 12 [ Homo sapiens ]
<b>Official Symbol</b>	MAPK12
<b>Synonyms</b>	MAPK12; mitogen-activated protein kinase 12; SAPK3; ERK6; p38gamma; PRKM12; SAPK 3;
<b>Gene ID</b>	6300
<b>mRNA Refseq</b>	NM_002969
<b>Protein Refseq</b>	NP_002960
<b>MIM</b>	602399
<b>Uniprot ID</b>	P53778
<b>Chromosome Location</b>	22q13.3
<b>Pathway</b>	Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; CDO in myogenesis, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem;
<b>Function</b>	ATP binding; MAP kinase activity; magnesium ion binding; nucleotide binding; protein binding;

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