

## 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;                                                                                                                                                                                                             |