

## Recombinant Human MAPK4 Protein (A2-W587), Tag Free

**Cat. No.** MAPK4-0110H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GG-MAPK4(A2-W587 end) Protein was expressed in Insect cell.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | A2-W587                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK4/MAPK4 is phosphorylated at Ser-186 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK4/MAPK4. May promote entry in the cell cycle. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>        | < 0.01 EU per µg of the protein                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.                                                                                                                                                                                                                                                                                                                                                                        |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol                                                                                                |
| <b>Shipping</b>       | It is shipped out with blue ice.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MAPK4 mitogen-activated protein kinase 4 [ Homo sapiens (human) ]                                                                                                                                          |
| <b>Official Symbol</b> | MAPK4                                                                                                                                                                                                      |
| <b>Synonyms</b>        | MAPK4; mitogen-activated protein kinase 4; PRKM4; Erk3 related; Erk4; ERK-4; MAPK 4; p63-MAPK; Erk3-related; MAP kinase 4; MAP kinase isoform p63; extracellular signal-regulated kinase 4; ERK3; p63MAPK; |
| <b>Gene ID</b>         | 5596                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_002747                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_002738                                                                                                                                                                                                  |
| <b>MIM</b>             | 176949                                                                                                                                                                                                     |
| <b>UniProt ID</b>      | P31152                                                                                                                                                                                                     |

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