# Active Recombinant Human MAP4K3 protein, GST-tagged

**Cat. No.** MAP4K3-392H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human MAP4K3(1-380 aa) fused with GST tag at N-terminal was expressed in Insect cells. |
| **Species** | Human |
| **Source** | Insect Cells |
| **ProteinLength** | 1-380 a.a. |
| **Description** | GLK is a member of the STE20 family of serine/threonine protein kinases and contains N-terminal catalytic domain and C-terminal regulatory domain. GLK is upstream of the MEKK1 target and is stimulated by UV radiation and TNF-and can lead to the activation of the JNK signaling pathway. GLK can directly activate PKC-θ during TCR signaling and people with systemic lupus erythematosus show considerable enhanced GLK expression and activation of PKC-θ and the kinase IKK in T cells. GLK can act as a pro-apoptotic kinase which orchestrates activation of BAX via the concerted posttranscriptional modulation of PUMA, BAD, and BIM. |
| **Form** | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. |
| **Bio-activity** | 92 nmol/min/mg |
| **Molecular Mass** | ~70 kDa |

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| **Purity** | > 70% |
| **Applications** | Kinase Assay, Western Blot |
| **Stability** | 1 year at -70 centigrade from date of shipment. |
| **Storage** | Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| **Concentration** | 0.05μg/μl |

## GENE INFORMATION

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| **Gene Name** | MAP4K3 mitogen-activated protein kinase kinase kinase kinase 3 [ Homo sapiens ] |
| **Official Symbol** | MAP4K3 |
| **Synonyms** | MAP4K3; mitogen-activated protein kinase kinase kinase kinase 3; RAB8IPL1; GLK; MAPKKKK3; MEK kinase kinase 3; MAPK/ERK kinase kinase kinase 3; germinal center kinase-like kinase; germinal center kinase-related protein kinase; MEKKK 3; |
| **Gene ID** | 8491 |
| **mRNA Refseq** | NM_003618 |
| **Protein Refseq** | NP_003609 |
| **MIM** | 604921 |
| **UniProt ID** | Q8IVH8 |

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| **Chromosome Location** | 2p22.3 |
| **Pathway** | Insulin Signaling, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; TNF receptor signaling pathway, organism-specific biosystem; |
| **Function** | ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; small GTPase regulator activity; |

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