

# Active Recombinant Human RIPK1 protein, GST-tagged

**Cat. No.** RIPK1-202H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant Human RIPK1(1-327 aa) fused with GST tag at N-terminal was expressed in Insect cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-327 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | RIPK1 or Receptor Interacting Protein Kinase 1 is a serine/threonine kinase that was originally identified as interacting with the cytoplasmic domain of FAS. RIPK1 has been deemed as an important element in the signal transduction machinery that mediates programmed cell death. RIPK1 has been shown to interact with TRADD, TRAF1 TRAF2 and TRAF3 and TRADD can act as an adaptor protein to recruit RIPK1 to the TNFR1 complex in a TNF-dependent process. TNF $\alpha$ is capable of activating the noncanonical NF- $\kappa$ B pathway, but this activation of this pathway is negatively regulated by RIPK1. |
| <b>Form</b>             | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | 28 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 63 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>     | <1.0 EU/μg of recombinant protein as determined by the LAL method.                                                                                                                                                                               |
| <b>Purity</b>        | >90%                                                                                                                                                                                                                                             |
| <b>Applications</b>  | Kinase Assay, Western Blot                                                                                                                                                                                                                       |
| <b>Stability</b>     | 1 year at -70 centigrade from the date of shipment.                                                                                                                                                                                              |
| <b>Storage</b>       | 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. |
| <b>Concentration</b> | 0.05μg/μl                                                                                                                                                                                                                                        |

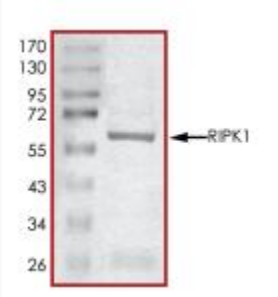
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | RIPK1 receptor (TNFRSF)-interacting serine-threonine kinase 1 [ Homo sapiens ]                                                                                                                                                                                                 |
| <b>Official Symbol</b> | RIPK1                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | RIPK1; receptor (TNFRSF)-interacting serine-threonine kinase 1; receptor-interacting serine/threonine-protein kinase 1; RIP; RIP-1; cell death protein RIP; receptor interacting protein; receptor-interacting protein 1; serine/threonine-protein kinase RIP; RIP1; FLJ39204; |
| <b>Gene ID</b>         | 8737                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_003804                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>  | NP_003795                                                                                                                                                                                                                                                                      |

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|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                                                                           | 603453                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>                                                                    | Q13546                                                                                                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b>                                                           | 6p25.2                                                                                                                                                                                                                                                                                                                                |
| <b>Pathway</b>                                                                       | Activated TLR4 signalling, organism-specific biosystem; Activation of Pro-Caspase 8, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis Modulation by HSP70, organism-specific biosystem; |
| <b>Function</b>                                                                      | ATP binding; death domain binding; death receptor binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;                                                                                                                                                                    |
|  |                                                                                                                                                                                                                                                                                                                                       |