

## Recombinant Full Length Human RIPK1, GST-tagged

Cat. No. RIPK1-7018H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Full-length recombinant human RIPK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	1-671 a.a.
<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>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~108 kDa
<b>Purity</b>	>70%

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<b>Applications</b>	Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.05 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<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
<b>MIM</b>	603453
<b>UniProt ID</b>	Q13546
<b>Chromosome Location</b>	6p25.2

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**Pathway**

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;

**Function**

ATP binding; death domain binding; death receptor binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;

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