

Recombinant Human RIPK3

Cat. No. RIPK3-29985TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 418-518 of Human RIP3 with a proprietary tag at N-terminal; predicted mwt: 36.74 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	418-518 aa
Description	The product of this gene is a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases, and contains a C-terminal domain unique from other RIP family members. The encoded protein is predominantly localized to the cytoplasm, and can undergo nucleocytoplasmic shuttling dependent on novel nuclear localization and export signals. It is a component of the tumor necrosis factor (TNF) receptor-I signaling complex, and can induce apoptosis and weakly activate the NF-kappaB transcription factor.
Molecular Weight	36.740kDa inclusive of tags
Tissue specificity	Highly expressed in the pancreas. Detected at lower levels in heart, placenta, lung and kidney. Isoform 3 is significantly increased in colon and lung cancers.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SPGPRGNQGAERQGMNWSCRTPEPNPVTGRPLVNIYNC SGVQVGDNNYLTMQQT TALPTWGLAPSGKGRGLQHPPPVG SQEGPKDPEAWSRPQGWYNHSGK
Sequence Similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	RIPK3 receptor-interacting serine-threonine kinase 3 [Homo sapiens]
Official Symbol	RIPK3
Synonyms	RIPK3; receptor-interacting serine-threonine kinase 3; receptor-interacting serine/threonine-protein kinase 3; RIP3;
Gene ID	11035
mRNA Refseq	NM_006871
Protein Refseq	NP_006862
MIM	605817
Uniprot ID	Q9Y572
Chromosome Location	14q12

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Pathway

Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem;

Function

ATP binding; NF-kappaB-inducing kinase activity; nucleotide binding; protein binding; protein kinase activity;

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