

Recombinant Full Length Human RIPK2 Protein, His-tagged

Cat. No. RIPK2-5564H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RIPK2 Protein (1-540 aa) is produced by E. coli expression system. This protein is fused with a His tag at the N-terminal.
Species	Human
Source	E.coli
ProteinLength	1-540 aa
Description	Serine/threonine/tyrosine kinase that plays an essential role in modulation of innate and adaptive immune responses. Upon stimulation by bacterial peptidoglycans, NOD1 and NOD2 are activated, oligomerize and recruit RIPK2 through CARD-CARD domains. Contributes to the tyrosine phosphorylation of the guanine exchange factor ARHGEF2 through Src tyrosine kinase leading to NF-kappaB activation by NOD2. Once recruited, RIPK2 autophosphorylates and undergoes 'Lys-63'-linked polyubiquitination by E3 ubiquitin ligases XIAP, BIRC2 and BIRC3. The polyubiquitinated protein mediates the recruitment of MAP3K7/TAK1 to IKBKG/NO and induces 'Lys-63'-linked polyubiquitination of IKBKG/NO and subsequent activation of IKBKB/IKKB. In turn, NF-kappa-B is released from NF-kappa-B inhibitors and translocates into the nucleus where it activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. Plays also a role during engagement of the T-cell receptor (TCR) in promoting BCL10 phosphorylation and subsequent NF-kappa-B activation.

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Form	Tris-based buffer,50% glycerol
Molecular Mass	65.2 kDa
AA Sequence	MNGEAICSALPTIPYHKLADLRYLSRGASGTVSSARHADWRVQVAVKHLHIHTPLLD SERKDVLREAEILHKARFSYILPILGICNEPEFLGIVTEYMPNGSLNELLHRKTEYPDV AWPLRFRILHEIALGVNYLHNMTPELLHDLKTQNILLDNEFHVKIADFGLSKWRMMS LSQSRSSKSAPEGGTIIYMPPENYEPGQKSRASIKHDIYSYAVITWEVLSRKQPFEDV TNPLQIMYSVSQGHRPVINEESLPYDIPHRARMISLIESGWAQNPDERPSFLKCLIEL EPVLRTFEEITFLEAVIQLKKTQLQSVSSAIHLCDKKKMELSLNIPVNHGPQEESCGSS QLHENSGSPETSRLPAPQDNDFLSRKAQDCYFMKLHHCPGNHSDSTISGSQRA AFCDHKTTPCSSAIINPLSTAGNSERLQPGIAQQWIQSKREDIVNQMTACLNQSLD ALLSRDLIMKEDYELVSTKPTRTSKVRQLLDDTDIQGEEFAKVIVQKLKDNKQMGLQP YPEILVVSRSPSLNLLQNKSM
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

GENE INFORMATION

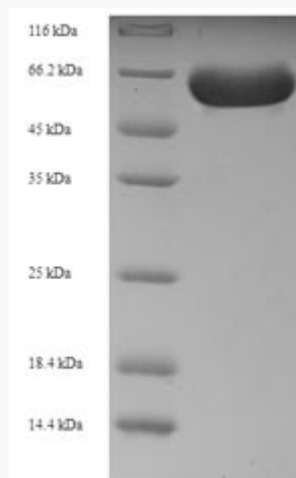
Gene Name	RIPK2 receptor-interacting serine-threonine kinase 2 [Homo sapiens]
Official Symbol	RIPK2

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Synonyms	RIPK2; CARD3; CARDIAK; RICK; RIP2; RIP-2; CCK; GIG30;
Gene ID	8767
mRNA Refseq	NM_003821
Protein Refseq	NP_003812
MIM	603455
UniProt ID	O43353



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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