

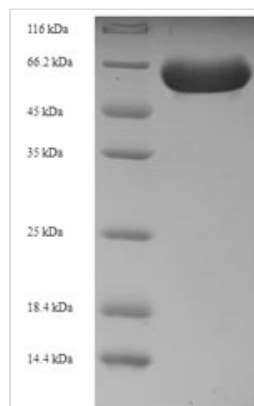


Recombinant Human Receptor-interacting serine/threonine-protein kinase 2(RIPK2)

Product Code	CSB-EP019736HU
Relevance	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.
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O43353
Storage Buffer	Tris-based buffer,50% glycerol
Alias	CARD-containing interleukin-1 beta-converting enzyme-associated kinase ;CARD-containing IL-1 beta ICE-kinaseRIP-like-interacting CLARP kinaseReceptor-interacting protein 2 ;RIP-2Tyrosine-protein kinase RIPK2 (EC:2.7.10.2)
Product Type	Recombinant Protein
Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MNGEAICSAIPTIPYHKLADRLRYLSRGASGTVSSARHADWRVQVAVKHLHIHT PLLDSEKRDVLR AEILHKARFSYILPILGICNEPEFLGIVTEYMPNGSLNELLHR KTEYPDVAWPLRFRILHEIALGVNYLHNMTPLLHDLKTQNILLDNEFHVKIAD FGLSKWRMMSLSQSRSSKSAPEGGTIYMPPENYEPGQKSRASIKHDIYSYAVI TWEVLSRKQPFEDVTNPLQIMYSVSQGHRPVINEESLPYDIPHRARMISLIESG WAQNPDERPSFLKCLIELEPVLRTFEEITFLEAVIQLKKTQLQSVSSAIHLCDKK KMELSLNIPVNHGPQEESCGSSQLHENS GSPETSRLPAPQDNDFLSRKAQD CYFMKLHHCPGNHSDWSTISGSQRAAFCDHKTTPCSSAIINPLSTAGNSERLQ PGIAQQWIQSKREDIVNQMT EACLNQSLDALLSRDLIMKEDYELVSTKPTRTSK VRQLLDTTDIQGE EFAKVIVQKLKDNKQMGLQPYPEILVVSRSPLNLLQNKSM



Research Area	Immunology
Source	E.coli
Gene Names	RIPK2
Expression Region	1-540aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	65.2kDa
Protein Description	Full Length

Image


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