RIPK2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	RIPK2, Blocking Peptide
Full Product Name	RIPK2 Blocking Peptide
Product Gene Name	RIPK2 blocking peptide
Product Synonym Names	CARD 3; CARD carrying kinase; CARD containing ICE associated kinase; CARD containing IL 1 beta ICE kinase; CARD containing IL1 beta ICE kinase; CARD containing interleukin 1 beta converting enzyme (ICE) associated kinase; CARD containing interleukin 1 beta converting enzyme associated kinase; CARD-containing IL-1 beta ICE-kinase; CARD-containing interleukin-1 beta-converting enzyme-associated kinase; CARD3; CARDIAK; CCK; CLARP kinase; GIG 30; GIG30; Growth inhibiting gene 30; Receptor interacting protein (RIP) like interacting caspase like apoptosis regulatory protein (CLARP) kinase; Receptor interacting protein 2; Receptor interacting serine threonine kinase 2; Receptor interacting serine/threonine protein kinase 2; Receptor-interacting protein 2; Receptor-interacting serine/threonine-protein kinase 2; RICK; RIP 2; RIP like interacting CLARP kinase; RIP-2; RIP-like-interacting CLARP kinase; RIPK 2; Ripk2; RIPK2_HUMAN; TNFRSF; Tyrosine-protein kinase RIPK2; UNQ277/PRO314/PRO34092
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RIPK2 peptide (MBS9622872) is used for blocking the activity of RIPK2 antibody (MBS9604155)
Molecular Weight	61,195 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (90769975..90803292). Location: 8q21
OMIM	603455
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RIPK2 blocking peptide	Blocking/Control
Related Product Information for RIPK2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of RIPK2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RIPK2 purchase	MBS9622872 is a blocking peptide targeting RIPK2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RIPK2. It may not necessarily be applicable to this product.

NCBI GI #	4506537
NCBI GeneID	8767
NCBI Accession #	NP_003812.1
UniProt Primary Accession #	O43353
UniProt Secondary Accession #	Q6UWF0; B7Z748
UniProt Related Accession #	O43353
GenBank Nucleotide #	NM_003821.5
NCBI Official Full Name	receptor-interacting serine/threonine-protein kinase 2
NCBI Official Synonym Full Names	receptor-interacting serine-threonine kinase 2
NCBI Official Symbol	RIPK2
NCBI Official Synonym Symbols	CCK; RICK; RIP2; CARD3; GIG30; CARDIAK
UniProt Protein Name	Receptor-interacting serine/threonine-protein kinase 2
UniProt Synonym Protein Names	CARD-containing interleukin-1 beta-converting enzyme-associated kinase; CARD-containing IL-1 beta ICE-kinase; RIP-like-interacting CLARP kinase; Receptor-interacting protein 2; RIP-2; Tyrosine-protein kinase RIPK2
Protein Family	Receptor-interacting serine/threonine-protein kinase
UniProt Gene Name	RIPK2
UniProt Synonym Gene Names	CARDIAK; RICK; RIP2; CARD-containing IL-1 beta ICE-kinase; RIP-2
UniProt Entry Name	RIPK2_HUMAN
NCBI Protein Information	receptor-interacting serine/threonine-protein kinase 2; RIP-2; CARD-carrying kinase; growth-inhibiting gene 30; tyrosine-protein kinase RIPK2; receptor-interacting protein 2; CARD-containing IL-1 beta ICE-kinase; CARD-containing interleukin-1 beta-convert
NCBI Summary for RIPK2	This gene encodes a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases. The encoded protein contains a C-terminal caspase activation and recruitment domain (CARD), and is a component of signaling complexes in both the innate and adaptive immune pathways. It is a potent activator of NF-kappaB and inducer of apoptosis in response to various stimuli. [provided by RefSeq, Jul 2008]

UniProt Comments for RIPK2	RIPK2: a tyrosine kinase-like kinase of the RIPK family. Activates pro-caspase-1 and pro-caspase-8. Potentiates casp-8-mediated apoptosis. May activate NF-kappaB. Protein type: EC 2.7.10.2; Kinase, protein; Protein kinase, TKL; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); TKL group; RIPK family Chromosomal Location of Human Ortholog: 8q21 Cellular Component: cytoskeleton; protein complex; cytoplasm; cytosol; vesicle Molecular Function: protein serine/threonine kinase activity; signal transducer activity; LIM domain binding; protein binding; protein homodimerization activity; non-membrane spanning protein tyrosine kinase activity; CARD domain binding; ATP binding Biological Process: I-kappaB kinase/NF-kappaB cascade; peptidyl-tyrosine phosphorylation; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; activation of MAPK activity; apoptosis; positive regulation of interleukin-12 production; stress-activated MAPK cascade; positive regulation of JNK cascade; toll-like receptor 3 signaling pathway; signal transduction; T cell receptor signaling pathway; toll-like receptor 10 signaling pathway; activation of NF-kappaB transcription factor; T cell proliferation; toll-like receptor 5 signaling pathway; response to exogenous dsRNA; positive regulation of immature T cell proliferation; lipopolysaccharide-mediated signaling pathway; positive regulation of interferon-beta production; JNK cascade; inflammatory response; toll-like receptor 4 signaling pathway; positive regulation of interferon-alpha production; adaptive immune response; positive regulation of I-kappaB kinase/NF-kappaB cascade; MyD88-independent toll-like receptor signaling pathway; positive regulation of interleukin-6 production; positive regulation of tumor necrosis factor production; positive regulation of peptidyl-serine phosphorylation; positive regulation of chemokine production; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; positive regulation of interferon-gamma production; positive regulation of peptidyl-tyrosine phosphorylation; defense response to Gram-positive bacterium; positive regulation of protein ubiquitination; positive regulation of interleukin-2 production; toll-like receptor signaling pathway; innate immune response; positive regulation of alpha-beta T cell proliferation; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; positive regulation of cytokine and chemokine mediated signaling pathway; positive regulation of T-helper 1 cell differentiation; negative regulation of apoptosis
Research Articles on RIPK2	**1.** Data suggest that ubiquitin (Ub) binding provides a negative feedback loop upon NOD1 and NOD2 (nucleotide-binding oligomerization domain-containing proteins)-dependent activation of receptor-interacting protein kinase 2 (RIP2).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/ripk2/9622872