IRAK2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	IRAK2, Blocking Peptide
Full Product Name	IRAK2 Blocking Peptide
Product Gene Name	IRAK2 blocking peptide
Product Synonym Names	il1rak2; Interleukin 1 receptor associated kinase 2; Interleukin 1 receptor associated kinase like 2; Interleukin-1 receptor-associated kinase-like 2; IRAK 2; IRAK-2; Irak2; IRAK2_HUMAN; MGC150550
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	IRAK2 peptide (MBS9624953) is used for blocking the activity of IRAK2 antibody (MBS9606236)
Molecular Weight	69,433 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (10206563..10285427). Location: 3p25.3
OMIM	603304
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 IRAK2 blocking peptide	Blocking/Control
Related Product Information for IRAK2 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 IRAK2 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 IRAK2 purchase	MBS9624953 is a blocking peptide targeting IRAK2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRAK2. It may not necessarily be applicable to this product.

NCBI GI #	58530886
NCBI GeneID	3656
NCBI Accession #	NP_001561.3
UniProt Primary Accession #	O43187
UniProt Secondary Accession #	Q08AG6; Q5K546; B4DQZ6

UniProt Related Accession #	O43187
GenBank Nucleotide #	NM_001570.3
NCBI Official Full Name	interleukin-1 receptor-associated kinase-like 2
NCBI Official Synonym Full Names	interleukin-1 receptor-associated kinase 2
NCBI Official Symbol	IRAK2
NCBI Official Synonym Symbols	IRAK-2
UniProt Protein Name	Interleukin-1 receptor-associated kinase-like 2
Protein Family	Interleukin-1 receptor-associated kinase
UniProt Gene Name	IRAK2
UniProt Synonym Gene Names	IRAK-2
UniProt Entry Name	IRAK2_HUMAN
NCBI Protein Information	interleukin-1 receptor-associated kinase-like 2; interleukin-1 receptor associated kinase-2
NCBI Summary for IRAK2	IRAK2 encodes the interleukin-1 receptor-associated kinase 2, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. IRAK2 is reported to participate in the IL1-induced upregulation of NF-kappaB. [provided by RefSeq, Jul 2008]
UniProt Comments for IRAK2	IRAK2: Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Interacts with MYD88. IL-1 stimulation leads to the formation of a signaling complex which dissociates from the IL-1 receptor following the binding of PELI1. Expressed in spleen, thymus, prostate, lung, liver, skeletal muscle, kidney, pancreas and peripheral blood leukocytes. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Protein type: Protein kinase, Ser/Thr (non-receptor); Protein kinase, TKL; Kinase, protein; TKL group; IRAK family Chromosomal Location of Human Ortholog: 3p25.3 Cellular Component: interleukin-1 receptor complex; cytoplasm; plasma membrane; endosome membrane; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; protein homodimerization activity; protein heterodimerization activity; ATP binding Biological Process: I-kappaB kinase/NF-kappaB cascade; activation of MAPK activity; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; protein amino acid phosphorylation; activation of NF-kappaB transcription factor; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; inhibition of NF-kappaB transcription factor; lipopolysaccharide-mediated signaling pathway; toll-like receptor signaling pathway; innate immune response; regulation of cytokine and chemokine mediated signaling pathway; JNK cascade; toll-like receptor 9 signaling pathway; inflammatory response; toll-like receptor 4 signaling pathway
Research Articles on IRAK2	**1.** Human interleukin-1 receptor-associated kinase-2 is essential for Toll-like receptor-mediated transcriptional and post-transcriptional regulation of tumor necrosis factor alpha.
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