IRAK4 Blocking Peptide

PRODUCT OVERVIEW

Product Name	IRAK4, Blocking Peptide
Full Product Name	IRAK4 Peptide
Product Gene Name	IRAK4 blocking peptide
Product Synonym Names	IPD1; REN64; IRAK-4; NY-REN-64; Interleukin-1 receptor-associated kinase 4; Renal carcinoma antigen NY-REN-64; interleukin-1 receptor-associated kinase 4
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store IRAK4 peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	IRAK4 peptide (MBS153046) is used for blocking the activity of IRAK-4 antibody (MBS151320)
Molecular Weight	37,674 Da
OMIM	phenotype 610799
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	Amino acids near the carboxy terminus of human IRAK-4.
Applications Tested/Suitable for IRAK4 blocking peptide	Blocking (BL)
Application Notes for IRAK4 blocking peptide	IRAK4 peptide is used for blocking the activity of IRAK-4 antibody.
Related Product Information for IRAK4 blocking peptide	MBS153046 is a blocking peptide targeting IRAK4. Also known as IRAK4 Peptide.
Other Notes	Small volumes of IRAK4 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRAK4. It may not necessarily be applicable to this product.

NCBI GI #	20219010
NCBI GeneID	51135
NCBI Accession #	AAM15772
UniProt Primary Accession #	Q9NWZ3
UniProt Secondary Accession #	Q69FE1; Q8TDF7; Q9Y589
UniProt Related Accession #	Q9NWZ3
NCBI Official Full Name	interleukin-1 receptor associated kinase 4
NCBI Official Synonym Full Names	interleukin-1 receptor-associated kinase 4

NCBI Official Symbol	IRAK4
NCBI Official Synonym Symbols	IPD1; REN64; IRAK-4; NY-REN-64
UniProt Protein Name	Interleukin-1 receptor-associated kinase 4
UniProt Synonym Protein Names	Renal carcinoma antigen NY-REN-64
Protein Family	Interleukin-1 receptor-associated kinase
UniProt Gene Name	IRAK4
UniProt Synonym Gene Names	IRAK-4
UniProt Entry Name	IRAK4_HUMAN
NCBI Protein Information	interleukin-1 receptor-associated kinase 4; renal carcinoma antigen NY-REN-64
NCBI Summary for IRAK4	This gene encodes a kinase that activates NF-kappaB in both the Toll-like receptor (TLR) and T-cell receptor (TCR) signaling pathways. The protein is essential for most innate immune responses. Mutations in this gene result in IRAK4 deficiency and recurrent invasive pneumococcal disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for IRAK4	IRAK4: a TKL kinase of the IRAK family. The interleukin-1 receptor-associated kinases are important mediators in the signal transduction of Toll-like receptor and IL1R family members, collectively referred to as TIRs. Protein type: Protein kinase, TKL; Kinase, protein; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); TKL group; IRAK family Chromosomal Location of Human Ortholog: 12q12 Cellular Component: extracellular space; cytoplasm; plasma membrane; endosome membrane; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; interleukin-1 receptor binding; magnesium ion binding; ATP binding; protein kinase activity Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; cytokine and chemokine mediated signaling pathway; positive regulation of smooth muscle cell proliferation; cytokine production; protein amino acid phosphorylation; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; toll-like receptor signaling pathway; JNK cascade; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway Disease: Invasive Pneumococcal Disease, Recurrent Isolated, 1; Irak4 Deficiency
Research Articles on IRAK4	**1.** delineation of the latter responses identified a narrow repertoire of transcriptional programs affected by loss of MyD88 function or IRAK4 function
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