KIR2DL3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	KIR2DL3, Blocking Peptide
Full Product Name	KIR2DL3 Blocking Peptide
Product Gene Name	KIR2DL3 blocking peptide
Product Synonym Names	CD158 antigen like family member B2; CD158 antigen-like family member B2; CD158b; CD158b2; GL183; KI2L3_HUMAN; Killer cell immunoglobulin like receptor two domains long cytoplasmic tail 3; Killer cell immunoglobulin-like receptor 2DL3; Killer inhibitory receptor cl 2-3; Killer inhibitory receptor CL2 3; KIR 023GB; KIR-023GB; KIR-K7b; KIR-K7c; KIR023GB; KIR2DL3; KIR2DS5; KIRCL23; MHC class I NK cell receptor; Natural killer associated transcript 2; Natural killer cell inhibitory receptor KIR2DL3; Natural killer-associated transcript 2; NKAT; NKAT-2; NKAT2; NKAT2a; NKAT2b; p58; p58 natural killer cell receptor clone CL 6; p58 natural killer cell receptor clone CL-6; p58 NK Receptor; p58 NK receptor CL 6; p58 NK receptor CL-6; p58.2 MHC class I specific NK receptor; p58.2 MHC class-I-specific NK receptor
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	KIR2DL3 peptide (MBS9625933) is used for blocking the activity of KIR2DL3 antibody (MBS9607217)
Molecular Weight	27,269 Da
OMIM	604938
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 KIR2DL3 blocking peptide	Blocking/Control
Related Product Information for KIR2DL3 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 KIR2DL3 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 KIR2DL3 purchase	MBS9625933 is a blocking peptide targeting KIR2DL3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KIR2DL3. It may not necessarily be applicable to this product.

NCBI GI #	71143139
NCBI GeneID	3804

NCBI Accession #	NP_056952.2
UniProt Primary Accession #	P43628
UniProt Secondary Accession #	O43472; P78402; Q14944; Q14945; Q9UM51; Q9UQ70
UniProt Related Accession #	P43628
GenBank Nucleotide #	NM_015868.2
NCBI Official Full Name	killer cell immunoglobulin-like receptor 2DL3
NCBI Official Synonym Full Names	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3
NCBI Official Symbol	KIR2DL3
NCBI Official Synonym Symbols	p58; NKAT; GL183; NKAT2; CD158b; NKAT2A; NKAT2B; CD158B2; KIR-K7b; KIR-K7c; KIR2DS5; KIRCL23; KIR-023GB
UniProt Protein Name	Killer cell immunoglobulin-like receptor 2DL3
UniProt Synonym Protein Names	CD158 antigen-like family member B2; KIR-023GB; Killer inhibitory receptor cl 2-3; MHC class I NK cell receptor; NKAT2a; NKAT2b; Natural killer-associated transcript 2; NKAT-2; p58 natural killer cell receptor clone CL-6; p58 NK receptor CL-6; p58.2 MHC class-I-specific NK receptor; CD_antigen: CD158b2
Protein Family	Killer cell immunoglobulin-like receptor
UniProt Gene Name	KIR2DL3
UniProt Synonym Gene Names	CD158B2; KIRCL23; NKAT2; NKAT-2; p58 NK receptor CL-6
UniProt Entry Name	KI2L3_HUMAN
NCBI Protein Information	killer cell immunoglobulin-like receptor 2DL3; CD158 antigen-like family member B2; MHC class I NK cell receptor; NK-receptor; NKAT-2; killer Ig-like inhibitory receptor; killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 5; ki
NCBI Summary for KIR2DL3	Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. [provided by RefSeq, Jul 2008]
UniProt Comments for KIR2DL3	KIR2DL3: Receptor on natural killer (NK) cells for HLA-C alleles (HLA-Cw1, HLA-Cw3 and HLA-Cw7). Inhibits the activity of NK cells thus preventing cell lysis. Belongs to the immunoglobulin superfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc. Chromosomal Location of Human Ortholog: 19q13.4 Cellular Component: integral to plasma membrane; integral to membrane; plasma membrane Molecular Function: protein binding; receptor activity; antigen binding Biological Process: regulation of immune response; immune response
Research Articles on KIR2DL3	**1.** these results suggest that inhibitory KIR2DL2 and KIR2DL3, which are alleles of the same locus, play a role in the inverse effects on PM and PM/HIV co-infection

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