LILRA4 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	LILRA4, Blocking Peptide
Full Product Name	LILRA4 Immunizing Peptide
Product Gene Name	LILRA4 blocking peptide
Sequence	C-SRHILKTL ESE
Species Reactivity	Human
Form/Format	100ug of Lyophilised peptide, formulation 5pmol/ul in 5% (v/v) acetonitrile/H2O.
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	LILRA4 peptide (MBS428849) is used for blocking the activity of LILRA4 antibody (MBS423811)
Molecular Weight	47,806 Da
OMIM	607517
Reconstitution	Reconstitute pellet in distilled water where required. For Blocking studies, reconstitute pellet in 200ul distilled water to obtain a 0.5mg/ml peptide solution.
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for LILRA4 blocking peptide	MBS428849 is a blocking peptide targeting LILRA4. Also known as LILRA4 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of LILRA4 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 LILRA4. It may not necessarily be applicable to this product.

NCBI GI #	47519953
NCBI GeneID	23547
NCBI Accession #	NP_036408.3
UniProt Primary Accession #	P59901
UniProt Secondary Accession #	Q32MC4
UniProt Related Accession #	P59901
GenBank Nucleotide #	NM_012276.3
NCBI Official Full Name	leukocyte immunoglobulin-like receptor subfamily A member 4
NCBI Official Synonym Full Names	leukocyte immunoglobulin like receptor A4
NCBI Official Symbol	LILRA4
NCBI Official Synonym Symbols	ILT7; CD85g
UniProt Protein Name	Leukocyte immunoglobulin-like receptor subfamily A member 4
UniProt Synonym Protein Names	CD85 antigen-like family member G; Immunoglobulin-like transcript 7

Protein Family	Leukocyte immunoglobulin-like receptor subfamily
UniProt Gene Name	LILRA4
UniProt Synonym Gene Names	; ILT-7
NCBI Protein Information	leukocyte immunoglobulin-like receptor subfamily A member 4
NCBI Summary for LILRA4	This gene encodes an immunoglobulin-like cell surface protein that is expressed predominantly on plasmacytoid dendritic cells (PDCs) and modulates the function of these cells in the immune response. Expression of this gene is downregulated by interleukin 3 (IL3). This gene is one of a cluster of highly related genes located at chromosomal region 19q13.4. [provided by RefSeq, Jan 2015]
UniProt Comments for LILRA4	Functions coreceptor to limit the innate immune responses to viral infections; signaling occurs via FCER1G (PubMed:16735691, PubMed:19564354). Down-regulates the production of IFNA1, IFNA2, IFNA4, IFNB1 and TNF by plasmacytoid dendritic cells that have been exposed to influenza virus or cytidine-phosphate-guanosine (CpG) dinucleotides, indicating it functions as negative regulator of TLR7 and TLR9 signaling cascades (PubMed:16735691, PubMed:19564354, PubMed:24586760). Down-regulates interferon production in response to interaction with BST2 on HIV-1 infected cells (PubMed:26172439). Activates a signaling cascade in complex with FCER1G that results in phosphorylation of Src family and Syk kinases and thereby triggers mobilization of intracellular Ca2+ (PubMed:16735691, PubMed:19564354). Does not interfere with the differentiation of plasmacytoid dendritic cells into antigen-presenting cells (PubMed:24586760).
Research Articles on LILRA4	**1.** Crosslinked ILT7 favours the differentiation of immature plasmacytoid dendritic cells into antigen-presenting cells rather than IPC.
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