SPN Blocking Peptide (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SPN, Blocking Peptide
Full Product Name	SPN Blocking Peptide (N-term)
Product Gene Name	SPN blocking peptide
Product Synonym Gene Name	CD43
Product Synonym Names	Leukosialin; Galactoglycoprotein; GALGP; Leukocyte sialoglycoprotein; Sialophorin; CD43; SPN; CD43
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 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 50-64 of HUMAN SPN
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	SPN peptide (MBS9228550) is used for blocking the activity of SPN antibody (MBS9205088)
Molecular Weight	40,322 Da
OMIM	182160
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Cell surface of thymocytes, T-lymphocytes, neutrophils, plasma cells and myelomas
Related Product Information for SPN blocking peptide	One of the major glycoproteins of thymocytes and T lymphocytes. Plays a role in the physicochemical properties of the T-cell surface and in lectin binding. Presents carbohydrate ligands to selectins. Has an extended rodlike structure that could protrude above the glycocalyx of the cell and allow multiple glycan chains to be accessible for binding. Is a counter-receptor for SN/Siglec-1 (By similarity). During T-cell activation is actively removed from the T-cell-APC (antigen-presenting cell) contact site thus suggesting a negative regulatory role in adaptive immune response (By similarity).
Other Notes	Small volumes of SPN 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 SPN purchase	MBS9228550 is a blocking peptide targeting SPN. Also known as SPN Blocking Peptide (N-term).

ADDITIONAL DETAILS

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

NCBI GI #	71979937
NCBI GeneID	6693
NCBI Accession #	NP_001025459.1
UniProt Primary Accession #	P16150
UniProt Secondary Accession #	A8K9B1
UniProt Related Accession #	P16150
GenBank Nucleotide #	NM_001030288.2
NCBI Official Full Name	leukosialin

NCBI Official Synonym Full Names	sialophorin
NCBI Official Symbol	SPN
NCBI Official Synonym Symbols	LSN; CD43; GALGP; GPL115
UniProt Protein Name	Leukosialin
UniProt Synonym Protein Names	Galactoglycoprotein; GALGP; Leukocyte sialoglycoprotein; Sialophorin; CD_antigen: CD43
Protein Family	Leukosialin
UniProt Gene Name	SPN
UniProt Synonym Gene Names	CD43; GALGP
UniProt Entry Name	LEUK_HUMAN
NCBI Protein Information	leukosialin
NCBI Summary for SPN	The protein encoded by this gene is a major sialoglycoprotein found on the surface of thymocytes, T lymphocytes, monocytes, granulocytes, and some B lymphocytes. It may be part of a physiologic ligand-receptor complex involved in T-cell activation. During T-cell activation, this protein is actively removed from the T-cell-APC (antigen-presenting cell) contact site, suggesting a negative regulatory role in adaptive immune response. [provided by RefSeq, Sep 2011]
UniProt Comments for SPN	sialophorin: One of the major glycoproteins of thymocytes and T lymphocytes. Plays a role in the physicochemical properties of the T-cell surface and in lectin binding. Presents carbohydrate ligands to selectins. Has an extended rodlike structure that could protrude above the glycocalyx of the cell and allow multiple glycan chains to be accessible for binding. Is a counter-receptor for SN/Siglec-1. During T-cell activation is actively removed from the T-cell-APC (antigen-presenting cell) contact site thus suggesting a negative regulatory role in adaptive immune response. Interacts with HIPK2 via the cytoplasmic domain. Interacts with RDX. Cell surface of thymocytes, T-lymphocytes, neutrophils, plasma cells and myelomas. Protein type: Membrane protein, integral; Cell surface Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cell surface; extracellular space; membrane; plasma membrane Molecular Function: protein binding; transmembrane receptor activity Biological Process: cellular defense response; chemotaxis; defense response to bacterium; establishment and/or maintenance of cell polarity; immune response; leukocyte migration; negative regulation of cell adhesion; positive regulation of tumor necrosis factor biosynthetic process; signal transduction
Research Articles on SPN	**1.** Forty percent of adenoid cystic carcinomas showed staining for CD43, while no cases of basal cell carcinoma were positive
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/spn/9228550