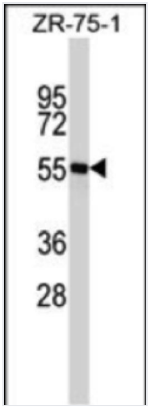
SPN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPN, Polyclonal Antibody
Full Product Name	SPN, NT (SPN, CD43, Leukosialin, Galactoglycoprotein, Leukocyte sialoglycoprotein, Sialophorin, CD43) (Biotin)
Product Gene Name	anti-SPN antibody
Product Synonym Names	SPN; CD43; Leukosialin; Galactoglycoprotein; Leukocyte sialoglycoprotein; Sialophorin; CD43
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	40,322 Da
OMIM	182160
3D Structure	ModBase 3D Structure for P16150
Immunogen	SPN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-64 amino acids from the N-terminal region of human SPN.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-SPN antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-SPN antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SPN antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SPN antibody	Sialophorin (leukosialin) is a major sialoglycoprotein on the surface of human T lymphocytes, monocytes, granulocytes, and some B lymphocytes, which appears to be important for immune function and may be part of a physiologic ligand-receptor complex involved in T-cell activation.
Product References and Citations for anti-SPN antibody	Urano-Tashiro, Y., et al. Infect. Immun. 76(10):4686-4691(2008). Mambole, A., et al. J. Biol. Chem. 283(35):23627-23635(2008). Seethala, R.R., et al. Appl. Immunohistochem. Mol. Morphol. 16(2):165-172(2008). Khunkaewla, P., et al. Mol. Immunol. 45(6):1703-1711(2008). Rawal, A., et al. Arch. Pathol. Lab. Med. 131(11):1673-1678(2007).
Other Notes	Small volumes of anti-SPN antibody 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	MBS6350642 is an antibody targeting SPN. Also known as SPN, NT (SPN, CD43, Leukosialin, Galactoglycoprotein, Leukocyte sialoglycoprotein, Sialophorin, CD43) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SPN antibody
Western Blot analysis using MBS6000527 in ZR-75-1 cell line lysates (35ug/lane).

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
NCBI Related Accession #	NP_003114.1
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; galactoglycoprotein; leukocyte sialoglycoprotein; sialophorin (gpL115, leukosialin, CD43)
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: extracellular space; cell surface; membrane; integral to plasma membrane; plasma membrane; basement membrane; uropod; external side of plasma membrane Molecular Function: protein binding; transmembrane receptor activity Biological Process: positive regulation of tumor necrosis factor biosynthetic process; regulation of defense response to virus; establishment and/or maintenance of cell polarity; negative regulation of cell adhesion; signal transduction; chemotaxis; negative thymic T cell selection; response to protozoan; negative regulation of T cell proliferation; cell surface receptor linked signal transduction; T cell costimulation; defense response to bacterium; cellular defense response; positive regulation of T cell proliferation; immune response; positive regulation of protein amino acid phosphorylation; negative regulation of type IV hypersensitivity; blood coagulation; leukocyte migration
Research Articles on SPN	**1.** When used as vaccine in mice, the 2/165 phagotope raised antibodies against the UN1/CD43 antigen, indicating that the 2/165 phagotope mimicked the UN1 antigen structure, and could represent a novel immunogen for cancer immunotherapy
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