CD43 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD43, Monoclonal Antibody
Full Product Name	CD43 (T Cell Marker, Galactoglycoprotein, GALGP, GPL115, Leukocyte sialoglycoprotein, Leukosialin, LSN, Sialophorin, SPN) (MaxLight 750)
Product Gene Name	anti-CD43 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	DF-T1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human CD43.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	95115135
OMIM	182160
3D Structure	ModBase 3D Structure for P16150
Immunogen	Myeloblastic KG1 cells
Conjugate	MaxLight750
Positive Control	Paracortex in a tonsil or a reactive lymph node
Product Categories/Family for anti-CD43 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD43 antibody	Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-CD43 antibody	FC/FACS: 0.5-1ug/10e6 cells IP: 1-2ug/500ug protein lysate IF: 1-2ug/ml WB: 0.5-1ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CD43 antibody	MBS6236324 is an antibody targeting CD43. Also known as CD43 (T Cell Marker, Galactoglycoprotein, GALGP, GPL115, Leukocyte sialoglycoprotein, Leukosialin, LSN, Sialophorin, SPN) (MaxLight 750). Reactive in Human. Host: Mouse.
Product References and Citations for anti-CD43 antibody	1. Stross WP, et. al. Journal of Clinical Pathology, 1989, 42(9):953-61.

Other Notes	Small volumes of anti-CD43 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD43. It may not necessarily be applicable to this product.

NCBI GI #	71979937
NCBI GeneID	6693
NCBI Accession #	NP_001025459
UniProt Primary Accession #	P16150
UniProt Related Accession #	P16150
GenBank Nucleotide #	NP_001025459.1
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 CD43	This gene encodes a highly sialylated glycoprotein that functions in antigen-specific activation of T cells, and is found on the surface of thymocytes, T lymphocytes, monocytes, granulocytes, and some B lymphocytes. It contains a mucin-like extracellular domain, a transmembrane region and a carboxy-terminal intracellular region. The extracellular domain has a high proportion of serine and threonine residues, allowing extensive O-glycosylation, and has one potential N-glycosylation site, while the carboxy-terminal region has potential phosphorylation sites that may mediate transduction of activation signals. Different glycoforms of this protein have been described. In stimulated immune cells, proteolytic cleavage of the extracellular domain occurs in some cell types, releasing a soluble extracellular fragment. Defects in expression of this gene are associated with Wiskott-Aldrich syndrome. [provided by RefSeq, Sep 2017]

UniProt Comments for CD43	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 CD43	**1.** our data indicate that DLBCL patients with CD5/CD43 coexpression represent a specific subgroup with a significantly worse prognosis than those expressing either marker alone.
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