CD43 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD43, Recombinant Protein
Full Product Name	Recombinant Human CD43
Product Gene Name	CD43 recombinant protein
Product Synonym Names	CD 43; CD43; CD43 antigen; Galactoglycoprotein; GALGP; GPL 115; GPL115; Human gene for sialophorin; Leucocyte sialoglycoprotein; LEUK_HUMAN; Leukocyte large sialoglycoprotein; Leukocyte sialoglycoprotein; Leukosialin; LSN; Ly-48; Sialophorin; sialophorin (gpL115; leukosialin; CD43); Spn
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 95% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	40,322 Da
Sequence Positions	27-253
OMIM	182160
3D Structure	ModBase 3D Structure for P16150
Species	Human
Tag	N-terminal His-Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for CD43 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for CD43 recombinant protein	MBS7614029 is a recombinant protein targeting CD43. Also known as Recombinant Human CD43. Host: E Coli.
Other Notes	Small volumes of CD43 recombinant protein 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_001025459.1
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 CD43	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 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.** 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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