CD226 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD226, Monoclonal Antibody
Full Product Name	CD226 (CD226 Antigen, Adhesion Glycoprotein, DNAX Accessory Molecule 1, DNAM1, DNAM-1, Platelet and T cell Activation Antigen 1, PTA1, TLiSA1) (MaxLight 550)
Product Gene Name	anti-CD226 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4j67
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight550.
Purity/Purification	Purified by protein G affinity chromatography from tissue culture supernatant.
Specificity	Recognizes human CD226. Reported to inhibit T- and NK cell mediated cytotoxicity against tumor cell targets and to block TNF alpha and IFN gamma secretion by alloantigen-specific T-cells (Kojima et al. 2003).
Preparation and Storage	Store at 4 degree C. Do Not Freeze.
Molecular Weight	38,614 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (67530192..67624232, complement). Location: 18q22.3
OMIM	605397
3D Structure	ModBase 3D Structure for Q15762
Immunogen	Human cytotoxic T lymphocyte clone
Conjugate	MaxLight550
Product Categories/Family for anti-CD226 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD226 antibody	Flow Cytometry (FC/FACS), Immunoprecipitation (IP)
Related Product Information for anti-CD226 antibody	MBS6254533 is an antibody targeting CD226. Also known as CD226 (CD226 Antigen, Adhesion Glycoprotein, DNAX Accessory Molecule 1, DNAM1, DNAM-1, Platelet and T cell Activation Antigen 1, PTA1, TLiSA1) (MaxLight 550). Reactive in Human. Host: Mouse.
Product References and Citations for anti-CD226 antibody	1. Shibuya, A. et al. (1996) DNAM-1, a novel adhesion molecule involved in the cytolytic function of T lymphocytes. Immunity. 4: 573 - 581.2. Shibuya, A. et al. (1998) Protein kinase C is involved in the regulation of both signaling and adhesion mediated by DNAX Accessory molecule-1 receptor. J. Immunol. 161. 1671 - 1676. 3. Kojima, H. et al. (2003) CD226 mediates platelet and megakaryocytic cell adhesion to vascular endothelial cells. J. Biol. Chem. 278 (38): 36748 - 36753.
Other Notes	Small volumes of anti-CD226 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 CD226. It may not necessarily be applicable to this product.

NCBI GI #	171460997
NCBI GeneID	10666
NCBI Accession #	NP_006557.2
UniProt Primary Accession #	Q15762
UniProt Secondary Accession #	B2R818
UniProt Related Accession #	Q15762
GenBank Nucleotide #	NM_006566.2
NCBI Official Full Name	CD226 antigen
NCBI Official Synonym Full Names	CD226 molecule
NCBI Official Symbol	CD226
NCBI Official Synonym Symbols	PTA1; DNAM1; DNAM-1; TLiSA1
UniProt Protein Name	CD226 antigen
UniProt Synonym Protein Names	DNAX accessory molecule 1
Protein Family	CD226 antigen
UniProt Gene Name	CD226
UniProt Synonym Gene Names	DNAM1; DNAM-1
UniProt Entry Name	CD226_HUMAN
NCBI Protein Information	CD226 antigen; adhesion glycoprotein; DNAX accessory molecule 1; DNAX accessory molecule-1; platelet and T cell activation antigen 1; T lineage-specific activation antigen 1 antigen
NCBI Summary for CD226	This gene encodes a glycoprotein expressed on the surface of NK cells, platelets, monocytes and a subset of T cells. It is a member of the Ig-superfamily containing 2 Ig-like domains of the V-set. The protein mediates cellular adhesion of platelets and megakaryocytic cells to vascular endothelial cells. The protein also plays a role in megakaryocytic cell maturation. [provided by RefSeq, Jul 2008]
UniProt Comments for CD226	DNAM-1: Receptor involved in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T-lymphocyte (CTL) and NK cell. Protein type: Cell adhesion; Immunoglobulin superfamily; Membrane protein, integral Chromosomal Location of Human Ortholog: 18q22.3 Cellular Component: cell surface; integral to plasma membrane; plasma membrane; external side of plasma membrane; lipid raft Molecular Function: integrin binding; protein binding; cell adhesion molecule binding; protein kinase binding Biological Process: regulation of immune response; positive regulation of natural killer cell mediated cytotoxicity directed against tumor cell target; positive regulation of immunoglobulin mediated immune response; cytokine production; cell recognition; cell adhesion; positive regulation of natural killer cell mediated cytotoxicity; signal transduction; positive regulation of mast cell activation
Research Articles on CD226	**1.** A CD226 three-variant haplotype is related with genetic predisposition to systemic sclerosis-related pulmonary fibrosis.
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