CD1B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD1B, Polyclonal Antibody
Full Product Name	CD1B (T-cell Surface Glycoprotein CD1b, CD1b) (MaxLight 650)
Product Gene Name	anti-CD1B antibody
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 MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CD1B.
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 amo
Molecular Weight	30,740 Da
OMIM	188360
3D Structure	ModBase 3D Structure for P29016
Immunogen	Full length human CD1B, aa1-333 (NP_001755.1).
Immunogen Sequence	MLLLPFQLLAVLFPGGNSEHAFQGPTSFHVIQTSSFTNSTWAQTQGSGWLDDLQIHGWDSDSGTAIFLKPWSKGNFSDKEVAELEEIFRVYIFGFAREVQ
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-CD1B antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD1B antibody	Western Blot (WB)
Application Notes for anti-CD1B antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CD1B antibody	CD1b is a 43kD member of the immunoglobulin superfamily also known as R1. It is a type I membrane glycoprotein with structural similarities to MHC c Langerhans cells, and dendritic cells. In addition to antigen presentation, CD1b has been implicated in thymic T cell development.

Other Notes	Small volumes of anti-CD1B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for CD1B purchase	MBS6372880 is an antibody targeting CD1B. Also known as CD1B (T-cell Surface Glycoprotein CD1b, CD1b) (MaxLight 650). Reactive in Human. Hos

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD1B. It may not necessarily be applicable to this product.

NCBI GI #	4502645
NCBI GeneID	910
NCBI Accession #	NP_001755.1
UniProt Primary Accession #	P29016
UniProt Secondary Accession #	Q5TDK9; Q5TDL0; Q9UMM2
UniProt Related Accession #	P29016
GenBank Nucleotide #	NM_001764
NCBI Official Full Name	T-cell surface glycoprotein CD1b
NCBI Official Synonym Full Names	CD1b molecule
NCBI Official Symbol	CD1B
NCBI Official Synonym Symbols	R1; CD1; CD1A
UniProt Protein Name	T-cell surface glycoprotein CD1b
UniProt Synonym Protein Names	CD_antigen: CD1b
Protein Family	T-cell surface glycoprotein
UniProt Gene Name	CD1B
UniProt Entry Name	CD1B_HUMAN
NCBI Protein Information	T-cell surface glycoprotein CD1b; CD1B antigen, b polypeptide; cortical thymocyte antigen CD1B; differentiation antigen CD1-alpha-3
NCBI Summary for CD1B	This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail, and requires vesicular acidification to bind lipid antigens. [provided by RefSeq, Jul 2008]
UniProt Comments for CD1B	CD1B: Antigen-presenting protein that binds self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on natural killer T-cells. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 1q23.1 Cellular Component: cell surface; lysosomal membrane; plasma membrane; integral to membrane; endosome membrane Molecular Function: protein binding; beta-2-microglobulin binding; exogenous lipid antigen binding; endogenous lipid antigen binding Biological Process: antigen processing and presentation, exogenous lipid antigen via MHC class Ib; immune response

Research Articles on CD1B	**1.** [review] Humans express both Group 1 (CD1a, CD1b and CD1c) and Group 2 (CD1d) CD1 molecules with nonredundant functions in response to the presentation of endogenous lipids.
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