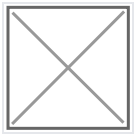
CD1a Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD1a, Antibody
Full Product Name	Anti-Hu CD1a FITC
Product Gene Name	anti-CD1a antibody
Product Synonym Names	CD1a molecule; T6; Leu-6; HTA1; FCB6
Isotype	IgG1
Clone Number	HI149
Host	Mouse
Species Reactivity	Human
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Purity/Purification	The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Specificity	The antibody HI149 reacts with an extracellular epitope of CD1a (T6), a 49 kDa polypeptide associated with beta2-microglobulin expressed on cortical thymocytes (strongly), Langerhans cells, dendritic cells and some T cell leukemias and lymphomas. The antibody does not react with peripheral blood T and B lymphocytes, monocytes, granulocytes, platelets and erythrocytes.
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.
Matching Pairs	Unconjugated Antibody: CD1a Clone #HI149 (MBS1800698) FITC Conjugated Antibody: CD1a Clone #HI149 (MBS1800700)
OMIM	M28825 mRNA
3D Structure	ModBase 3D Structure for P06126
Immunogen	Human thymocytes
Conjugation	FITC
Applications Tested/Suitable for anti-CD1a antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD1a antibody	FC/FACS: QC tested
Related Product Information for anti-CD1a antibody	CD1a, together with CD1b and c, belongs to group 1 of CD1 glycoproteins. These proteins serve as antigen-presenting molecules for a subset of T cells that responds to specific lipids and glycolipids found in the cell walls of bacterial pathogens or self-glycolipid antigens such as gangliosides, and they have also roles in antiviral immunity. Unlike CD1b, CD1a is excluded from late endosomal compartments and instead traffics independently in the recycling pathway of the early endocytic system, and CD1a antigen presentation is independent upon vesicular acidification.
Other Notes	Small volumes of anti-CD1a 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 CD1a purchase	MBS1800700 is an antibody targeting CD1a. Also known as Anti-Hu CD1a FITC. Reactive in Human. Host: Mouse.



Flow Cytometry (FC/FACS) of anti-CD1a antibody
Flow cytometry analysis of human CD1a on the surface of MOLT-4 cells (red), compared with blank(black) using anti-human CD1a (HI149) FITC.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD1a. It may not necessarily be applicable to this product.

NCBI GI #	288558852
NCBI GeneID	909
NCBI Accession #	P06126.4
UniProt Primary Accession #	P06126
UniProt Related Accession #	P06126
NCBI Official Full Name	T-cell surface glycoprotein CD1a
NCBI Official Synonym Full Names	CD1a molecule
NCBI Official Symbol	CD1A
NCBI Official Synonym Symbols	R4; T6; CD1; FCB6; HTA1
UniProt Protein Name	T-cell surface glycoprotein CD1a
UniProt Synonym Protein Names	T-cell surface antigen T6/Leu-6; hTa1 thymocyte antigen; CD_antigen: CD1a
Protein Family	T-cell surface glycoprotein
UniProt Gene Name	CD1A
UniProt Synonym Gene Names	hTa1 thymocyte antigen
NCBI Protein Information	T-cell surface glycoprotein CD1a
NCBI Summary for CD1a	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 the plasma membrane and to recycling vesicles of the early endocytic system. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]
UniProt Comments for CD1a	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.
Research Articles on CD1a	**1.** Single nucleotide polymorphisms in exon 2 of CD1A (*01/*02) and CD1E (*01/*02) cannot be recognized as a susceptibility or disease-causative factor for Guillain-Barre syndrome in the Bangladeshi population
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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