

CD1A monoclonal antibody, clone CBT6

Catalog # MAB15053 Size 100 ug

Specification

Product Description Mouse monoclonal antibody raised against native human CD1A.

Immunogen Native purified human CD1A.

Host Mouse

Theoretical MW (kDa) 49

Reactivity Human

Form Liquid

Purification Protein A/G purification

Isotype IgG2b, kappa

Recommend Usage
Flow Cytometry (0.5-1 ug/10⁶ cells)
Immunofluorescence (1-2 ug/mL)
The optimal working dilution should be determined by the end user.

Storage Buffer In 10 mM PBS.

Storage Instruction
Store at -20 to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Immunofluorescence
- Flow Cytometry

Gene Info — CD1A

Entrez GeneID	909
Protein Accession#	P06126
Gene Name	CD1A
Gene Alias	CD1, FCB6, HTA1, R4, T6
Gene Description	CD1a molecule
Omim ID	188370
Gene Ontology	Hyperlink
Gene Summary	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. Alternatively spliced transcript variants have been observed, but their biological validity has not been determined. [provided by RefSeq]
Other Designations	CD1A antigen CD1A antigen, a polypeptide OTTHUMP00000018907 T-cell surface antigen T6/L eu-6 T-cell surface glycoprotein CD1a cluster of differentiation 1 A cortical thymocyte antigen CD1 A differentiation antigen CD1-alpha-3 epidermal dendritic cell marker

Publication Reference

- [The distribution of CD1 molecules in inflammatory neuropathy.](#)

A Khalili-Shirazi, N A Gregson, M Londei, L Summers, R A Hughes.

Journal of the Neurological Sciences 1998 Jun; 158(2):154.

- [The role of CD1 molecules in immune responses to infection.](#)

J K Maher, M Kronenberg.

Current Opinion in Immunology 1997 Aug; 9(4):456.

- [Structure and function of the CD1 family of MHC-like cell surface proteins.](#)

Blumberg RS, Gerdes D, Chott A, Porcelli SA, Balk SP.

Immunological Reviews 1995 Oct; 147:5.

Application: Flow Cyt, IHC, Human, Mouse, Rabbit, B cells, Dendritic cells, Gastrointestinal tracts, Monocytes, T cells, Thymocytes

- [Analysis of CD1 molecules on haematological malignancies of myeloid and lymphoid origin. II. Intracellular detection of CD1 antigens.](#)

Salamone MC, Roisman FR, Morelli AE, Noli MI, Fainboim L.

Disease Markers 1990 Sep; 8(5):275.

- [The thymic differentiation markers T6 and M241 are two unusual MHC class I antigens.](#)

M van de Rijn, P G Lerch, R W Knowles, C Terhorst.

The Journal of Immunology 1983 Aug; 131(2):851.

- [Biochemical comparison of the T6 antigen and HLA-A,B antigens.](#)

Lerch PG, van de Rijn M, Schrier P, Terhorst C.

Human Immunology 1983 Jan; 6(1):13.

Pathway

- [Hematopoietic cell lineage](#)

Disease

- [Campylobacter Infections](#)
- [Genetic Predisposition to Disease](#)
- [Guillain-Barre Syndrome](#)
- [Lung Diseases](#)
- [Mycobacterium Infections](#)
- [Polyradiculoneuropathy](#)