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CD1A Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1537a

Specification

CD1A Antibody - Product Information

Application	**E, WB, FC**
Primary Accession	P06126
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**37kDa KDa**

Description
CD1a is a non polymorphic MHC Class 1 related cell surface glycoprotein, expressed in association with Beta 2 microglobulin. CD1a is expressed by cortical thymocytes, Langerhan's cells and by interdigitating cells. CD1a is also expressed by some malignancies of T cell lineage and in histiocytosis X. Tissue specificity: Expressed on cortical thymocytes, epidermal Langerhans cells, dendritic cells, on certain T-cell leukemias, and in various other tissues.

Immunogen
Purified recombinant fragment of human CD1A expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

CD1A Antibody - Additional Information

Gene ID 909

Other Names
T-cell surface glycoprotein CD1a, T-cell surface antigen T6/Leu-6, hTa1 thymocyte antigen, CD1a, CD1A

Dilution
E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CD1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CD1A Antibody - Protein Information

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Name CD1A

Function
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.

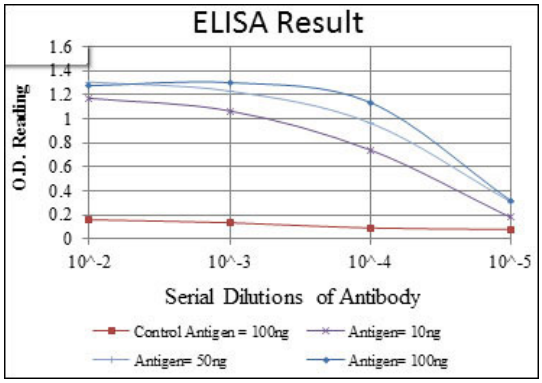
Cellular Location
Cell membrane; Single-pass type I membrane protein. Membrane raft; Single-pass type I membrane protein. Endosome membrane; Single- pass type I membrane protein. Note=Subject to intracellular trafficking between the cell membrane and endosomes (PubMed:11231314). Localizes to cell surface lipid rafts (PubMed:18178838).

Tissue Location
Expressed on cortical thymocytes, epidermal Langerhans cells, dendritic cells, on certain T-cell leukemias, and in various other tissues.

CD1A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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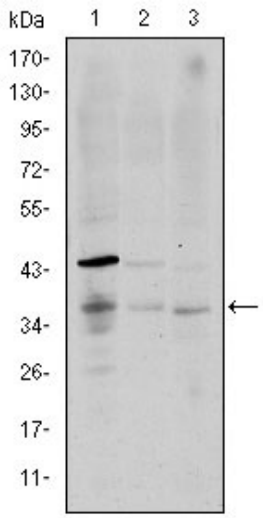

Figure 1: Western blot analysis using CD1A mouse mAb against K562 (1), RAJI (2), and MOLT4 (3) cell lysate.

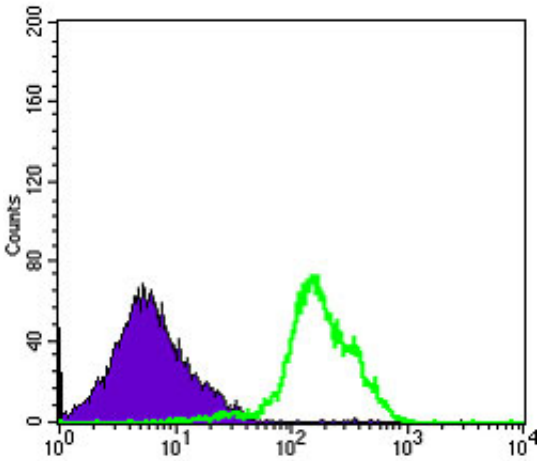

Figure 2: Flow cytometric analysis of RAJI cells using CD1A mouse mAb (green) and negative control (purple).

CD1A Antibody - References

1. J Neuroimmunol. 2008 Dec 15;205(1-2):110-2. 2. Pathol Int. 2008 Mar;58(3):169-73.