

### **CD1A Antibody**

Purified Mouse Monoclonal Antibody Catalog # AO1538a

## **Specification**

## **CD1A Antibody - Product Information**

Application WB, IHC, ICC, E

Primary Accession
Reactivity
Host
Clonality
Isotype

P06126
Human
Mouse
Mouse
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**

WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~1/10000

### **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**



## 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).

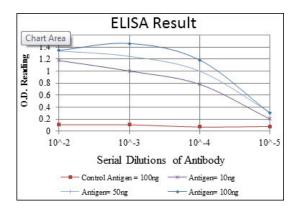
#### **Tissue Location**

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
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture





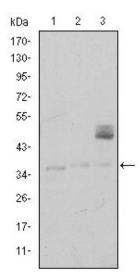


Figure 1: Western blot analysis using CD1A mouse mAb against K562 (1), RAJI (2), and MOLT4 (3) cell lysate.

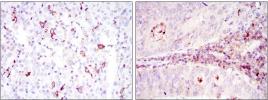


Figure 2: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues (left) and colon cancer tissues (right) using CD1A mouse mAb with DAB staining.

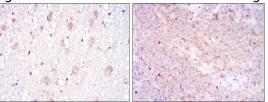


Figure 3: Immunohistochemical analysis of paraffin-embedded brain tissues (left) and submaxillary tumor tissues (right) using CD1A mouse mAb with DAB staining.

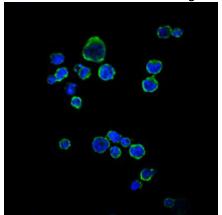


Figure 4: Immunofluorescence analysis of RAJI cells using CD1A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

# **CD1A Antibody - References**

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



