

# CD1A Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1538a

## Product Information

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<b>Application</b>	WB, IHC, ICC, E
<b>Primary Accession</b>	<a href="#">P06126</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	7A7
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	37077
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human CD1A expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	909
<b>Other Names</b>	T-cell surface glycoprotein CD1a, T-cell surface antigen T6/Leu-6, hTa1 thymocyte antigen, CD1a, CD1A
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~1/10000
<b>Storage</b>	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.
<b>Precautions</b>	CD1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CD1A
<b>Function</b>	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.

## References

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

## Images

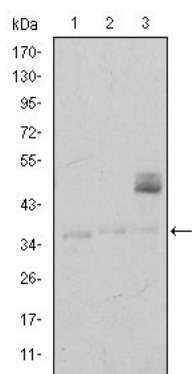


Figure 1: Western blot analysis using CD1A mouse mAb against K562 (1), RAJI (2), and MOLT4 (3) cell lysate.

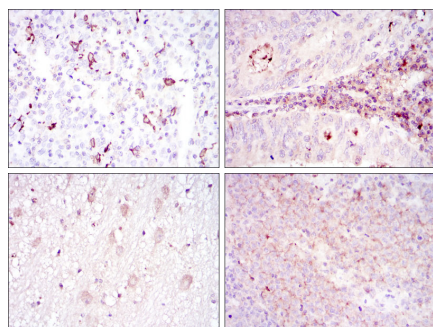


Figure 2: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues (left) and colon cancer tissues (right) using CD1A mouse mAb with DAB staining.

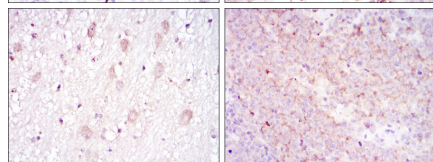


Figure 3: Immunohistochemical analysis of paraffin-embedded brain tissues (left) and submaxillary tumor tissues (right) using CD1A mouse mAb with DAB staining.

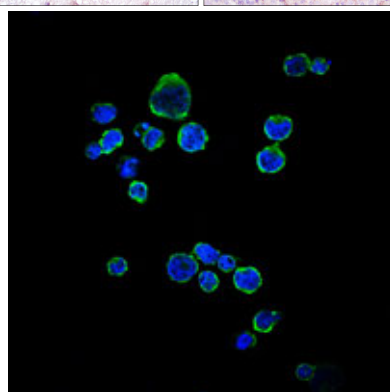


Figure 4: Immunofluorescence analysis of RAJI cells using CD1A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.