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CD1A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13538c

Specification

CD1A Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P06126
Other Accession	NP_001754.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**37077**
Antigen Region	**75-104**

CD1A Antibody (Center) - Additional Information

Gene ID 909

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

Target/Specificity
This CD1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 75-104 amino acids from the Central region of human CD1A.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

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

CD1A Antibody (Center) - 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).

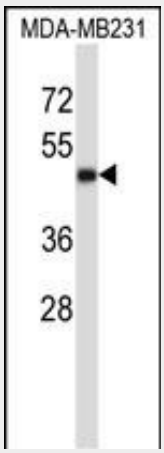
Tissue Location
Expressed on cortical thymocytes, epidermal Langerhans cells, dendritic cells, on certain T-cell leukemias, and in various other tissues.

CD1A Antibody (Center) - 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

CD1A Antibody (Center) - Images



CD1A Antibody (Center) (Cat. #AP13538c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the CD1A antibody detected the CD1A protein (arrow).

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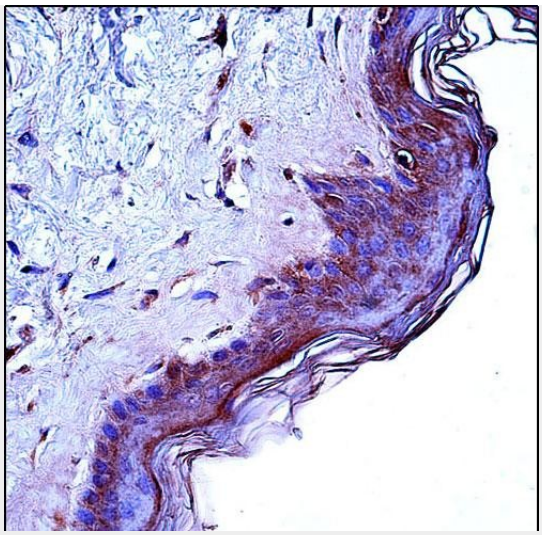

CD1A Antibody (Center) (Cat. #AP13538c)immunohistochemistry analysis in formalin fixed and paraffin embedded human skin tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CD1A Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

CD1A Antibody (Center) - Background

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.

CD1A Antibody (Center) - References

Zeissig, S., et al. J. Clin. Invest. 120(8):2889-2899(2010)
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Valencia, J., et al. J. Leukoc. Biol. 87(3):405-414(2010)
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