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CD1A Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP13538c

Specification

CD1A Antibody (Center) Blocking peptide - Product Information

Primary Accession P06126

CD1A Antibody (Center) Blocking peptide - 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
The synthetic peptide sequence used to generate the antibody AP13538c was selected from the Center region of CD1A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CD1A Antibody (Center) Blocking peptide - Protein Information

Name CD1A

Function
Antigen-presenting protein that binds self

CD1A Antibody (Center) Blocking peptide - Background

This gene encodes a member of the CD1 family oftransmembrane glycoproteins, which are structurally related to themajor histocompatibility complex (MHC) proteins and formheterodimers with beta-2-microglobulin. The CD1 proteins mediatethe presentation of primarily lipid and glycolipid antigens of selfor microbial origin to T cells. The human genome contains five CD1family genes organized in a cluster on chromosome 1. The CD1 familymembers are thought to differ in their cellular localization andspecificity for particular lipid ligands. The protein encoded bythis gene localizes to the plasma membrane and to recyclingvesicles of the early endocytic system. Alternatively splicedtranscript variants have been observed, but their biologicalvalidity has not been determined.

CD1A Antibody (Center) Blocking peptide - References

Zeissig, S., et al. J. Clin. Invest. 120(8):2889-2899(2010)Davila, S., et al. Genes Immun. 11(3):232-238(2010)Valencia, J., et al. J. Leukoc. Biol. 87(3):405-414(2010)Cernadas, M., et al. J. Immunol. 184(3):1235-1241(2010)Young, D.C., et al. J. Biol. Chem. 284(37):25087-25096(2009)

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) Blocking peptide - Protocols

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

- Blocking Peptides