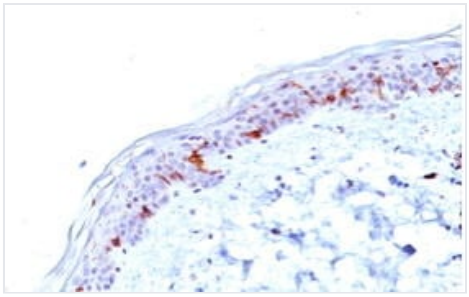
CD1a Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD1a, Monoclonal Antibody
Full Product Name	CD1a (Cortical Thymocyte antigen CD1A, Epidermal Dendritic Cell Marker CD1a, FCB6, HTA1, T cell surface antigen T6 / Leu 6, T-Cell Surface Glycoprotein CD1A) (PE)
Product Gene Name	anti-CD1a antibody
Product Synonym Names	Cortical Thymocyte antigen CD1A; Epidermal Dendritic Cell Marker CD1a; FCB6; HTA1; T cell surface antigen T6 / Leu 6; T-Cell Surface Glycoprotein CD1A
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	SPM120
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in 10mM PBS. No preservative added. BSA-Free. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human CD1a.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	37,077 Da
OMIM	M28825 mRNA
3D Structure	ModBase 3D Structure for P06126
Immunogen	Human thymus cells. Cellular Localization: Cell surface
Conjugate	PE
Positive Control	MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
Special Handling	Light sensitive
Product Categories/Family for anti-CD1a antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD1a antibody	Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-CD1a antibody	FC/FACS: 0.5-1ug/million cells IP: 1-2ug/500ug protein WB: 0.5-1ug/ml IF: 1-2ug/ml IHC: 0.5-1ug/ml for 30 min at RT Applications are based on unconjugated antibody.
Related Product Information for anti-CD1a antibody	MBS6123927 is an antibody targeting CD1a. Also known as CD1a (Cortical Thymocyte antigen CD1A, Epidermal Dendritic Cell Marker CD1a, FCB6, HTA1, T cell surface antigen T6 / Leu 6, T-Cell Surface Glycoprotein CD1A) (PE). Reactive in Human. Host: Mouse.

Product References and Citations for anti-CD1a antibody	1. McNally, AK. et al. 2011. Exp. Mol. Pathol. 91: 673-681. 2. Matsuda, A. et al. 2009. Invest. Ophthalmol. Vis. Sci. 50: 2871-2877. 3. Gulubova, M. et al. 2008. Clin. Exp. Metastasis. 25: 777-785. 4. Cassaday, RD. et al. 2007. Clin. Cancer Res. 13: 540-549.
Other Notes	Small volumes of anti-CD1a antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-CD1a antibody
Formalin-paraffin human skin stained with CD1a MAb (SPM120).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD1a. It may not necessarily be applicable to this product.

NCBI GI #	288558852
NCBI GeneID	909
NCBI Accession #	P06126.4
UniProt Primary Accession #	P06126
UniProt Secondary Accession #	Q13962; Q5TDJ8; Q9UMM4; Q9Y5M5; D3DVD7
UniProt Related Accession #	P06126
NCBI Official Full Name	T-cell surface glycoprotein CD1a
NCBI Official Synonym Full Names	CD1a molecule
NCBI Official Symbol	CD1A
NCBI Official Synonym Symbols	R4; T6; CD1; FCB6; HTA1
UniProt Protein Name	T-cell surface glycoprotein CD1a
UniProt Synonym Protein Names	T-cell surface antigen T6/Leu-6; hTa1 thymocyte antigen; CD_antigen: CD1a
Protein Family	T-cell surface glycoprotein
UniProt Gene Name	CD1A
UniProt Synonym Gene Names	hTa1 thymocyte antigen
NCBI Protein Information	T-cell surface glycoprotein CD1a
NCBI Summary for CD1a	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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]
UniProt Comments for CD1a	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.

Research Articles on CD1a	**1.** CD207(+)CD1a(+) cells are circulating in patients with active Langerhans cell histiocytosis, and TSLP and TGF-beta are potential drivers of Langerhans-like cells in vivo.
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