

Mouse CD1a/HTA1 Monoclonal Antibody | anti-CD1A antibody

CD1a/HTA1 (Mature Langerhans Cells Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214569	Mouse	Human. Others not known.	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD1a/HTA1; Monoclonal Antibody; CD1a/HTA1 (Mature Langerhans Cells Marker); Cortical thymocyte antigen CD1A; Epidermal dendritic cell marker CD1a antibody; FCB6; HTA1; T cell surface antigen T6 / Leu 6; T-Cell Surface Glycoprotein CD1A; anti-CD1A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	rC1A/711
Specificity	At least five CD1 genes (CD1a, b, c, d, and e) are identified. CD1 proteins have been demonstrated to restrict T cell response to non-peptide lipid and glycolipid antigens and play a role in non-classical antigen presentation. CD1a is a non-polymorphic MHC Class 1 related cell surface glycoprotein, expressed in association with Beta-2 microglobulin. Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node. When combined with antibodies against TTF-1 and CD5, anti-CD1a is useful in distinguishing between pulmonary and thymic neoplasms since CD1a is consistently expressed in thymic lymphocytes in both typical and atypical thymomas, but only focally in 1/6 of thymic carcinomas and not in lymphocytes in pulmonary neoplasms. Anti-CD1a is reported to be a new marker for perivascular epithelial cell tumor (PEComa).
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	316
Applicable Applications for anti-CD1A antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant full-length human CD1a protein
Cellular Localization	Cell Surface
Hu-chromosome Location	1q23.1
Positive Control	MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis of Purified CD1a Mouse Recombinant Monoclonal Antibody (rC1A/711).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Skin stained with CD1a Mouse Recombinant Monoclonal Antibody (rC1A/711).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Skin stained with CD1a Mouse Recombinant Monoclonal Antibody (rC1A/711).

ADDITIONAL INFORMATION

References	Matsuda, A.et al.2009. Invest. Ophthalmol. Vis. Sci. 50: 2871-2877. McNally, AK.et al.2011. Exp. Mol. Pathol. 91: 673-681.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1002167153
NCBI GeneID	909
NCBI Accession #	NP_001307581.1
NCBI GenBank Nucleotide #	NM_001320652.1
UniProt Accession #	P06126; Q13962; Q5TDJ8; Q9UMM4; Q9Y5M5; D3DVD7
Molecular Weight	49kDa
NCBI Official Full Name	T-cell surface glycoprotein CD1a isoform 2
NCBI Official Synonym Full Names	CD1a molecule
NCBI Official Symbol	CD1A
NCBI Official Synonym Symbols	R4; T6; CD1; FCB6; HTA1
NCBI Protein Information	T-cell surface glycoprotein CD1a
UniProt Protein Name	T-cell surface glycoprotein CD1a
UniProt Gene Name	CD1A
UniProt Synonym Gene Names	hTa1 thymocyte antigen

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.