

Mouse anti-Human CD1a / HTA1 Monoclonal Antibody | anti-CD1A antibody

CD1a / HTA1 (Mature Langerhans Cells Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62633	Mouse	Human	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD1a / HTA1; Monoclonal Antibody; CD1a / HTA1 (Mature Langerhans Cells Marker) Mouse Monoclonal Antibody; 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
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	C1A/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)
Cellular Localization	Cell Surface
Immunogen	Recombinant human CD1a protein
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



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Skin stained with CD1a Monoclonal Antibody (C1A/711).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Skin stained with CD1a Monoclonal Antibody (C1A/711).

ADDITIONAL INFORMATION

References	McNally, AK. et al. 2011. Exp. Mol. Pathol. 91: 673-681. Matsuda, A. et al. 2009. Invest. Ophthalmol. Vis. Sci. 50: 2871-2877. Gulubova, M. et al. 2008. Clin. Exp. Metastasis. 25: 777-785. Cassaday, RD. et al. 2007. Clin. Cancer Res. 13: 540-549.
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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
UniProt Entry Name	CD1A_HUMAN

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