

## Anti-CD1a / HTA1 Antibody (C1A/711)

<b>CATALOG NO:</b>	A1478-100
<b>ALTERNATIVE NAMES:</b>	Cortical thymocyte antigen CD1A, Epidermal dendritic cell marker CD1a antibody, FCB6, HTA1, T cell surface antigen T6 / Leu 6, T-Cell Surface Glycoprotein CD1A
<b>AMOUNT:</b>	100 µg
<b>IMMUNOGEN:</b>	Recombinant human CD1a protein
<b>HOST/ISOTYPE:</b>	Mouse / IgG1, kappa
<b>CLONALITY:</b>	Monoclonal
<b>CLONE:</b>	C1A/711
<b>MOL WEIGHT:</b>	49 kDa
<b>SPECIES REACTIVITY:</b>	Human
<b>PURIFICATION:</b>	Protein A/G purified
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	Supplied in 10 mM PBS with 0.05% BSA & 0.05% azide
<b>STORAGE CONDITIONS:</b>	Shipped at 4°C. Long term storage at -20°C.
<b>DESCRIPTION:</b>	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).
<b>APPLICATION:</b>	FC: 0.5-1µg/1X10 <sup>6</sup> cells in 0.1ml IF: 1-2µg/ml IHC: 0.5-1 µg/ml for 30 minutes at RT (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)

**Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.**



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

### RELATED PRODUCTS:

- Anti-CD11c Antibody (ITGAX/1243) (Cat. No. A1474)
- Anti-CD146 Rabbit Monoclonal Antibody (Cat. No. A1122)
- Anti-CD11a Antibody (CRIS-3) (Cat. No. A1472)
- CD1E, human recombinant (Cat. No. 7308)
- CD5, human recombinant (Cat. No. 7315)
- CD11c FITC Monoclonal Antibody (Clone 3.9) (Cat. No. 6956)

**FOR RESEARCH USE ONLY! Not to be used on humans.**