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## 12-1098: Anti-CD1a / HTA1 (Mature Langerhans Cells Marker) Recombinant Mouse Monoclonal Antibody (Clone:rC1A/711)

Clonality: Monoclonal **Clone Name:** rC1A/711 Application: IHC Reactivity: Human Gene: CD1A Gene ID: 909 **Uniprot ID:** P06126 Format: Purified

Alternative Name: Cortical thymocyte antigen CD1A, Epidermal dendritic cell marker CD1a antibody, FCB6,

HTA1, T cell surface antigen T6 / Leu 6, T-Cell Surface Glycoprotein CD1A

**Isotype:** Mouse IgG1, kappa

Immunogen Information: Recombinant full-length human CD1a protein

## **Description**

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. Â 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).Â

## **Product Info**

Amount :  $20 \mu g / 100 \mu g$ Purification : Protein A/G

Content: 200µg/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA &

0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

**Storage condition :** Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 34 months. Non hazardous

is stable for 24 months. Non-hazardous.

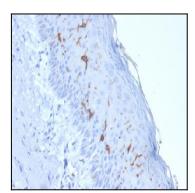
## **Application Note**

Immunohistochemistry (Formalin-fixed) (1-2 $\tilde{A}$  $\square$  $\hat{A}$  $\mu$ g/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);





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Figure 1: Formalin-fixed, paraffin-embedded human Skin stained with CD1a Mouse Recombinant Monoclonal Antibody (rC1A/711).

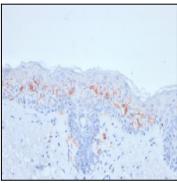


Figure 2: Formalin-fixed, paraffin-embedded human Skin stained with CD1a Mouse Recombinant Monoclonal Antibody (rC1A/711).

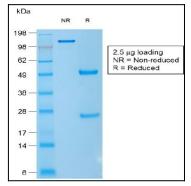


Figure 3:SDS-PAGE Analysis of Purified CD1a Mouse Recombinant Monoclonal Antibody (rC1A/711).