

Datasheet for ABIN6940996

**anti-CD1a antibody****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CD1a
Reactivity:	Human, Rhesus Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD1a antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blotting (WB), Staining Methods (StM)

## Product Details

Immunogen:	Human thymus cells
Clone:	O10
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

## Target Details

Target:	CD1a
Alternative Name:	CD1A ( <a href="#">CD1a Products</a> )
Background:	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

## Target Details

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).

Molecular Weight:	49kDa
Gene ID:	909
UniProt:	<a href="#">P06126</a>
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>

## Application Details

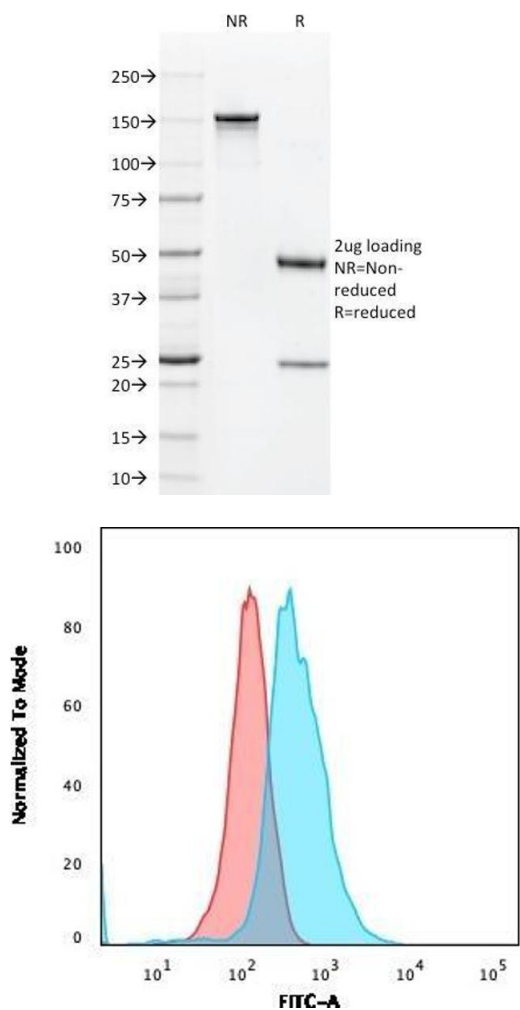
Application Notes:	Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node or skin. Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (0.5-1.0 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
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Restrictions:	For Research Use only
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## Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



### SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified CD1a Mouse Monoclonal Antibody (O10). Confirmation of Integrity and Purity of Antibody.

### Flow Cytometry

**Image 2.** Flow Cytometric Analysis of MOLT-4 cells using CD1a Mouse Monoclonal Antibody (O10) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).

### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Skin stained with CD1a Mouse Monoclonal Antibody (O10).