

# Human CD1a Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 703217

Catalog Number: FAB7076U

100 µg

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>        | Detects human CD1a in direct ELISAs. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) CD1d is observed and no cross-reactivity with rhCD1b or rhCD1e is observed.                                                                                                                                     |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 703217                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human CD1a<br>Asp19-Val300 (predicted)<br>Accession # P06126                                                                                                                                                                                                                     |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm                                                                                                                                                                                                                                                  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                       | <b>Recommended Concentration</b> | <b>Sample</b>                                       |
|-----------------------|----------------------------------|-----------------------------------------------------|
| <b>Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells  | MOLT-4 human acute lymphoblastic leukemia cell line |

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Protect from light. Do not freeze.**  

- 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

CD1a is a 49 kDa transmembrane glycoprotein in the CD1 family of glycolipid antigen-presenting MHC-like molecules. CD1a contains one Ig-like domain in its extracellular region. It is expressed by most nonhuman mammals but not by mice or rats. Complexes of CD1a with β2-microglobulin and endogenous glycolipids are constitutively expressed on antigen presenting cells, cortical thymocytes, and Langerhans cells. CD1a is a target of autoreactive Th22 helper T cells in the skin.

## PRODUCT SPECIFIC NOTICES

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