

# **Human CD1e Antibody**

Monoclonal Mouse IgG<sub>1</sub> Clone # 704407 Catalog Number: MAB7330

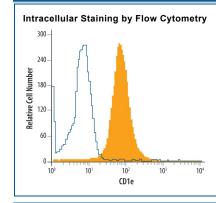
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human CD1e in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) CD1a, rhCD1b, rhCD1c, rhCD1d recombinant rat beta 2-Microglobulin is observed.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 704407		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD1e Met1-Tyr304 Accession # P15812		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

#### **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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	2.5 μg/10 <sup>6</sup> cells	See Below
CyTOF-ready Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that co conjugation.		blished conjugation methods. No BSA or other carrier proteins that could interfere with

## DATA



Detection of CD1e in Jurkat **Human Cell Line by Flow** Cytometry. Jurkat human acute T cell leukemia cell line was treated for 3 hours with monensin, then stained with Mouse Anti-Human CD1e Monoclonal Antibody (Catalog # MAB7330, filled histogram) or isotype control antibody (Catalog # Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # F0102B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

### PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

#### BACKGROUND

CD1e is an approximately 40 kDa transmembrane glycoprotein in the CD1 family of glycolipid antigen-presenting MHC-like molecules. CD1e associates with β2-microglobulin in endosomes and the Golgi where it facilitates the processing of glycolipids for their presentation by other CD1 family proteins. CD1e is expressed by most nonhuman mammals but not by mice or rats. It contains one Ig-like domain in its extracellular region. Alternate splicing of human CD1e generates multiple isoforms with various deletions and substitutions in the extracellular and/or cytoplasmic domains.

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