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Antibody to Human CD1a (leu6, T6)
MOUSE MONOCLONAL

Catalog Number: AB-413
Quantity: 500 micrograms, 1 milligram
Format: Lyophilized
Host: Mouse
Isotype: IgG1
Clone: hCD1a
Immunogen: Purified human PBL T cells

Background:

CD1a is a transmembrane glycoproteins, which is structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. CD1a mediates the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to the plasma membrane and to recycling vesicles of the early endocytic system. Alternatively spliced transcript variants have been observed, but their biological validity has not been determined.

Specificity and Preparation:

Mouse Anti-Human CD1a (leu6, T6) is purified by ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Applications include staining. For staining, use $10 \mu\text{l}/10^6$ cells. This antibody recognizes human thymocytes. Reconstitute with sterile H₂O. Mix gently, wash the sides of the vial and wait 30-60 seconds before use. In lyophilized form, store at 4°C. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Antibody is stable for two years lyophilized, one month in solution at 4°C. This material is provided for LABORATORY RESEARCH USE ONLY.