

CD1B Rabbit mAb

Catalog No.: A26120 **Recombinant**

Basic Information

Observed MW

Refer to figures

Calculated MW

37kDa/30kDa

Category

Primary antibody

Applications

IF/ICC,FC,ELISA

Cross-Reactivity

Human

CloneNo number

ARC66962

Background

This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate 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 late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail, and requires vesicular acidification to bind lipid antigens.

Recommended Dilutions

IF/ICC 1:50 - 1:200

FC 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

910

Swiss Prot

P29016

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

R1; CD1; CD1A

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

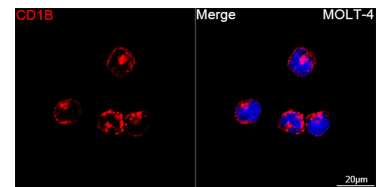
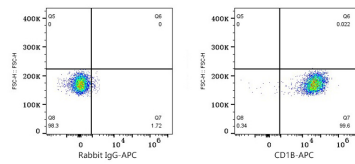
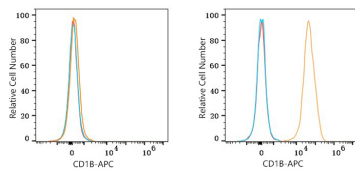
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Flow cytometry: 1×10^6 K-562 cells (negative control, left) and MOLT-4 cells (right) were surface-stained with CD1B Rabbit mAb (A26120, 2 $\mu\text{g}/\text{mL}$, orange line) or Rabbit IgG isotype control (AC042, 2 $\mu\text{g}/\text{mL}$, blue line), followed by APC conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry: 1×10^6 MOLT-4 cells were surface-stained with Rabbit IgG isotype control (AC042, 2 $\mu\text{g}/\text{mL}$, left) or CD1B Rabbit mAb (A26120, 2 $\mu\text{g}/\text{mL}$, right), followed by APC conjugated goat anti-rabbit pAb staining.

Confocal imaging of MOLT-4 cells using CD1B Rabbit mAb (A26120, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.