

CD1d Rabbit mAb

Catalog No.: A24163 **Recombinant**

Basic Information

Observed MW

50kDa

Calculated MW

38kDa

Category

Primary antibody

Applications

WB, IF/ICC, FC, ELISA

Cross-Reactivity

Human

CloneNo number

ARC64591

Background

This gene encodes a divergent 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. Two transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB 1:1000 - 1:2000**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

912

Swiss Prot

P15813

Immunogen

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

Synonyms

R3; CD1A; R3G1; CD1d

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

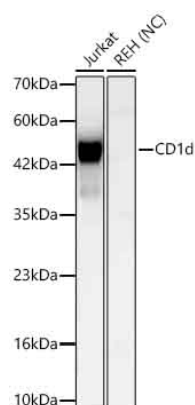
Affinity purification

Storage

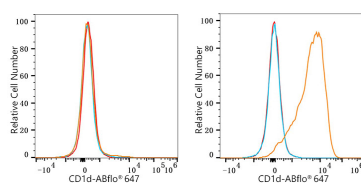
Store at -20°C. Avoid freeze / thaw cycles.

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.

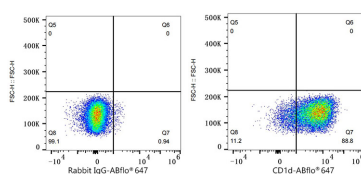
Validation Data



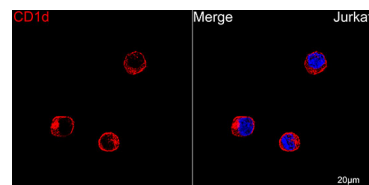
Western blot analysis of various lysates using CD1d Rabbit mAb (A24163) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): REH. Exposure time: 45s.



Flow cytometry: 1×10^6 K-562 cells (negative control, left) and Jurkat cells (right) were surface-stained with CD1d Rabbit mAb (A24163, 2 µg/mL, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 µL/Test, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 Jurkat cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 µL/Test, left) or CD1d Rabbit mAb (A24163, 2 µg/mL, right).



Confocal imaging of Jurkat cells using CD1d Rabbit mAb (A24163, 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.