abcam

Product datasheet

Anti-CD1d antibody [EPR22526-9] ab256344

Recombinant RabMAb

5 Images

Overview

Product name	Anti-CD1d antibody [EPR22526-9]
Description	Rabbit monoclonal [EPR22526-9] to CD1d
Host species	Rabbit
Tested applications	**Suitable for:** IP, WB, Flow Cyt **Unsuitable for:** ICC/IF or IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Jurkat and MOLT-4 whole cell lysate. IP: Jurkat whole cell lysate. Flow Cyt: Human peripheral blood mononuclear and Jurkat cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22526-9

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab256344 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/30.
WB		1/1000. Predicted molecular weight: 38 kDa.
Flow Cyt		1/600.

Application notes Is unsuitable for ICC/IF or IHC-P.

Target

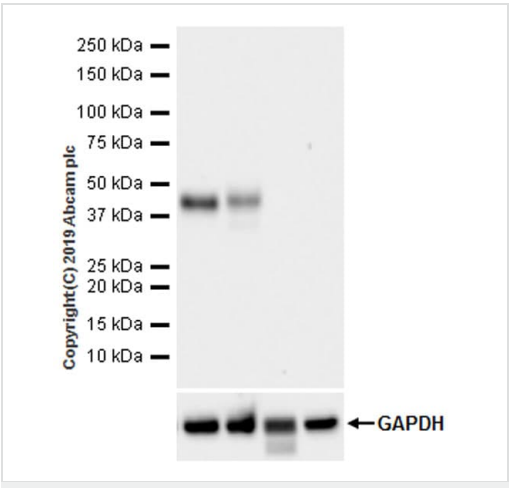
Function Antigen-presenting protein that binds self and non-self glycolipids and presents them to T-cell receptors on natural killer T-cells.

Tissue specificity Expressed on cortical thymocytes, on certain T-cell leukemias, and in various other tissues.

Sequence similarities Contains 1 Ig-like (immunoglobulin-like) domain.

Cellular localization Cell membrane. Endosome membrane. Lysosome membrane. Subject to intracellular trafficking between the cell membrane, endosomes and lysosomes.

Images



Western blot - Anti-CD1d antibody [EPR22526-9] (ab256344)

All lanes : Anti-CD1d antibody [EPR22526-9] (ab256344) at 1/1000 dilution

Lane 1 : Jurkat (human T cell leukemia T lymphocyte), whole cell lysate
Lane 2 : MOLT-4 (human lymphoblastic leukemia T lymphoblast), whole cell lysate
Lane 3 : SH-SY5Y (human neuroblastoma epithelial cell), whole cell lysate
Lane 4 : K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

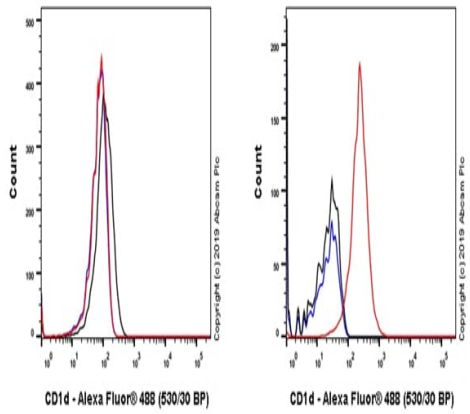
Predicted band size: 38 kDa
Observed band size: 48 kDa

Exposure time: 37 seconds

The molecular weight observed is consistent with what has been described in the literature (PMID: 10809957).

Negative control: SH-SY5Y (PMID: 26749374), K562 (PMID: 21037579).

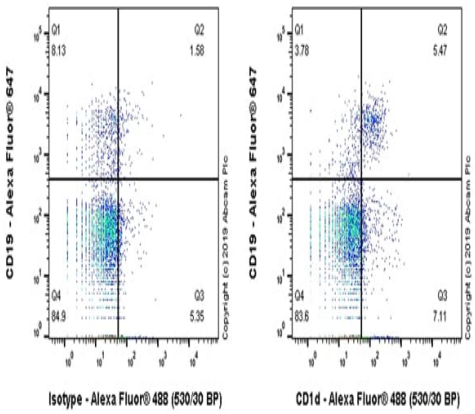
Blocking/Dilution buffer: 5% NFDM/TBST.



Flow Cytometry - Anti-CD1d antibody [EPR22526-9] (ab256344)

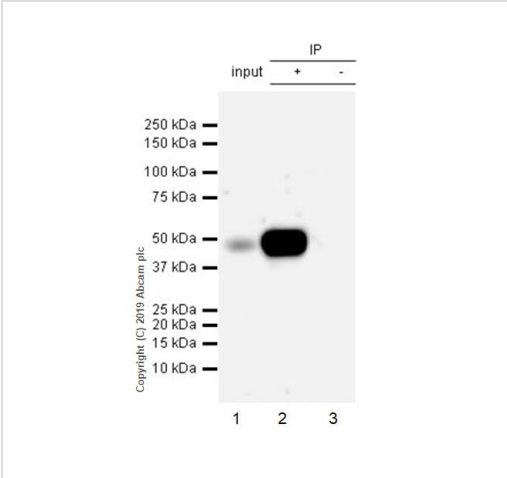
Flow cytometric analysis of K562 (human chronic myelogenous leukemia lymphoblast, Left) / Jurkat (human T cell leukemia T lymphocyte, Right) cells labeling CD1d with ab256344 at 1/600 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.

Negative control: K562 (PMID: 21037579).



Flow Cytometry - Anti-CD1d antibody [EPR22526-9] (ab256344)

Flow cytometric analysis of human peripheral blood mononuclear cell (PBMC) cells labeling CD1d with ab256344 at 1/600 dilution (0.1µg) (Right) compared with a Rabbit monoclonal IgG (**ab172730**) (Left) isotype control. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150097**) at 1/5000 dilution was used as the secondary antibody. Cells were stained with rabbit IgG (Left) or ab256344 (Right). Then stained with anti-CD19 conjugated to Alexa Fluor® 647. Gated on viable cells.



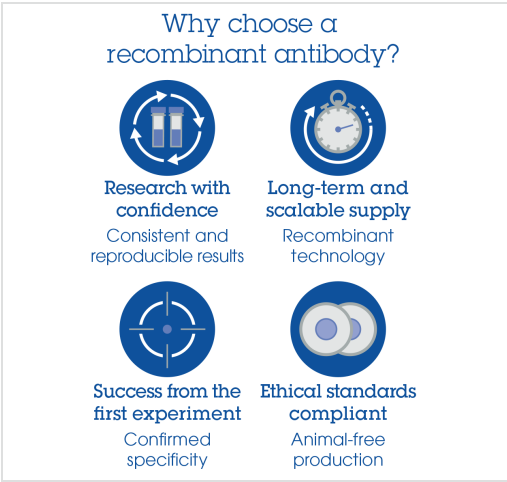
Immunoprecipitation - Anti-CD1d antibody [EPR22526-9] (ab256344)

CD1d was immunoprecipitated from 0.35 mg Jurkat (human T cell leukemia T lymphocyte) whole cell lysate with ab256344 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab256344 at 1/1000 dilution (0.6 µg/ml). VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used as the secondary antibody at 1/5000 dilution.

Lane 1: Jurkat whole cell lysate (10µg)
Lane 2: ab256344 IP in Jurkat whole cell lysate
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab256344 in Jurkat whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 mins.



Anti-CD1d antibody [EPR22526-9] (ab256344)

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