abcam

Product datasheet

Anti-CD1c antibody [EPR23189-305] ab273049

KO VALIDATED   Recombinant   RabMAb

4 Images

Overview

Product name	Anti-CD1c antibody [EPR23189-305]
Description	Rabbit monoclonal [EPR23189-305] to CD1c
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt **Unsuitable for:** ICC/IF,IHC-P,IP or WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cyt: Jurkat cells; Human PBMCs.
General notes	**Note:** Clone EPR23189-305 (this product) is a different clone to that of ab246520. 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, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23189-305

Isotype	IgG

Applications

The Abpromise guarantee   Our Abpromise guarantee covers the use of ab273049 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
Flow Cyt		1/500. We recommend to use this product for cell-surface staining only

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

Target

Function   Antigen-presenting protein that binds self and non-self lipid and glycolipid antigens 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.
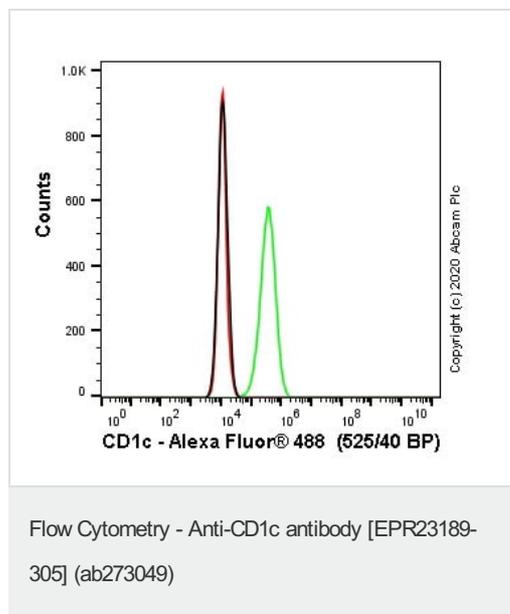
Sequence similarities   Contains 1 Ig-like (immunoglobulin-like) domain.

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

Images

Flow Cytometry - Anti-CD1c antibody [EPR23189-305] (ab273049)

Flow cytometry overlay histogram histogram showing wild-type (green line) and CD1C knockout Jurkat cells stained with ab273049 (red line). The cells were incubated in 1x PBS containing 10 % normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab273049) ($1x10^6$ in 100 µl at 0.2 µg/ml) for 30 min at 4°C.

The secondary antibody Goat anti-rabbit IgG H&L (Alexa Fluor ® 488, pre-adsorbed) (ab150081) was used at 1/2000 for 30 min at 4°C.

Isotype control antibody was Rabbit IgG (monoclonal) (ab172730) used at the same concentration and conditions as the primary antibody (wild-type Jurkat - black line; CD1C knockout Jurkat - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.
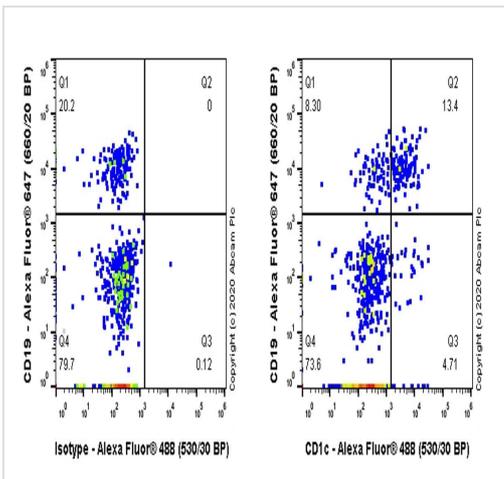
Flow Cytometry - Anti-CD1c antibody [EPR23189-305] (ab273049)

Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling CD1c with ab273049 at 1/500 dilution (0.1ug) (Right) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Left). Cells were stained with rabbit IgG (Left) or ab273049 (Right). Then stained with anti-CD19 conjugated to Alexa Fluor® 647.

Gated on viable cells.
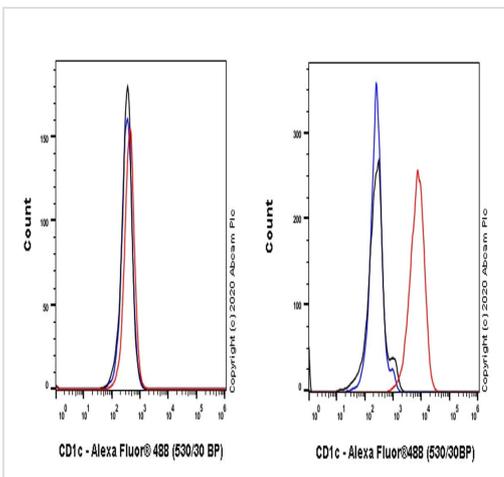
Flow Cytometry - Anti-CD1c antibody [EPR23189-305] (ab273049)

Flow cytometric analysis of THP-1 (Human monocytic leukemia monocyte)(Left) / Jurkat (Human T cell leukemia T lymphocyte) (Right) cells labelling CD1c with ab273049 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled 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.

Negative control: THP-1 (PMID: 24935257).

Gated on viable cells.

Anti-CD1c antibody [EPR23189-305] (ab273049)

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors