abcam

Product datasheet

# Anti-CD161 antibody [EPR23831-120] - BSA and Azide free ab280203

Recombinant RabMAb

1 Abreviews 4 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-CD161 antibody [EPR23831-120] - BSA and Azide free |
| **Description** | Rabbit monoclonal [EPR23831-120] to CD161 - BSA and Azide free |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** ICC/IF, Flow Cyt<br>**Unsuitable for:** 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** | ICC/IF: Human PBMC cells. Flow Cyt: Human PBMC cells. |
| **General notes** | ab280203 is the carrier-free version of **ab259916**.<br><br>Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.<br><br>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.<br><br>Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.<br><br>This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.<br><br>This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br><br>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. |
| **Storage buffer** | Constituent: 100% PBS |
| **Carrier free** | Yes |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR23831-120 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab280203 in the following tested applications.

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

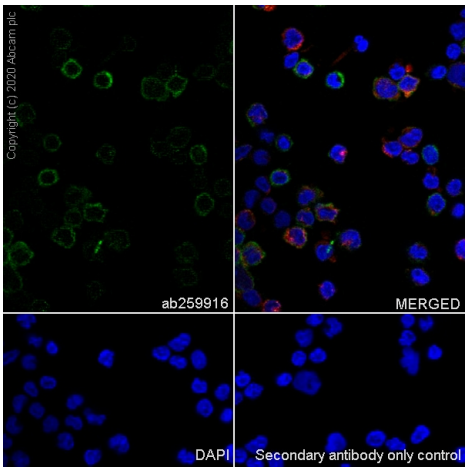
| Application | Abreviews | Notes |
|---|---|---|
| **ICC/IF** | | Use at an assay dependent concentration. |
| **Flow Cyt** | | Use at an assay dependent concentration. |

**Application notes** Is unsuitable for IHC-P,IP or WB.

## Target

| | |
|---|---|
| **Function** | Plays an inhibitory role on natural killer (NK) cells cytotoxicity. Activation results in specific acid sphingomyelinase/SMPD1 stimulation with subsequent marked elevation of intracellular ceramide. Activation also leads to AKT1/PKB and RPS6KA1/RSK1 kinases stimulation as well as markedly enhanced T-cell proliferation induced by anti-CD3. Acts as a lectin that binds to the terminal carbohydrate Gal-alpha(1,3)Gal epitope as well as to the N-acetyllactosamine epitope. Binds also to CLEC2D/LLT1 as a ligand and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells. |
| **Tissue specificity** | Expressed in a subset of NK cells predominantly in intestinal epithelium and liver. Detected in peripheral blood T-cells and preferentially in adult T-cells with a memory antigenic phenotype. |
| **Sequence similarities** | Contains 1 C-type lectin domain. |
| **Post-translational modifications** | N-glycosylated. Contains sialic acid residues. |
| **Cellular localization** | Membrane. |

## Images

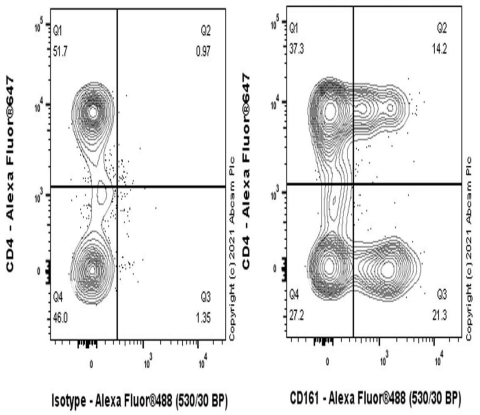



Immunocytochemistry/ Immunofluorescence - Anti-CD161 antibody [EPR23831-120] - BSA and Azide free (ab280203)

This data was developed using **ab259916**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized human PBMC cells labelling CD161 with **ab259916** at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in subsets of human PBMC cells. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



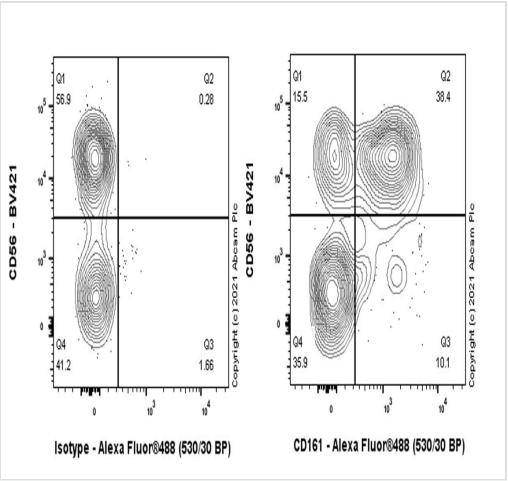

Flow Cytometry - Anti-CD161 antibody [EPR23831-120] - BSA and Azide free (ab280203)

This data was developed using **ab259916**, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of human peripheral blood mononuclear cell (PBMC) cells labelling CD161 with **ab259916** at 1/500 dilution/ Right compared with a Rabbit monoclonal IgG isotype control (**ab172730**) / Left. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with rabbit IgG or **ab259916**. Then stained with anti-CD4 conjugated to Alexa Fluor® 647.

Gated on viable cells.

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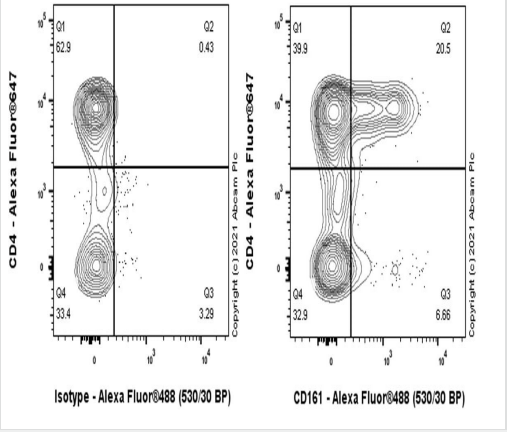
Cells were stained with rabbit IgG or **ab259916**. Then stained with anti-CD4 conjugated to Alexa Fluor® 647 and anti-CD56 conjugated to BV421.

Gated on viable CD4(-) population.

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Cells were stained with rabbit IgG or **ab259916**. Then stained with anti-CD4 conjugated to Alexa Fluor® 647 and anti-CD56 conjugated to BV421.

Gated on viable CD56(-) population.



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