abcam

ab320719

Anti-CD300a antibody [EPR27995-84]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR27995-84
Purification technique	Affinity purification Protein A
Concentration	0.496 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Dot

Tested

Species	Transfected cell line - Human
Dilution info	1/1000
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/500
Notes	-

Not recommended

Species	Transfected cell line - Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Transfected cell line - Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Not recommended

Species	Human, Mouse, Rat, Transfected cell line - Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat, Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information CD300A

Function	Inhibitory receptor which may contribute to the down-regulation of cytolytic activity in natural killer (NK) cells, and to the down-regulation of mast cell degranulation (PubMed:10746781, PubMed:16339535, PubMed:9701027). Negatively regulates the Toll-like receptor (TLR) signaling mediated by MYD88 but not TRIF through activation of PTPN6 (PubMed:22043923).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

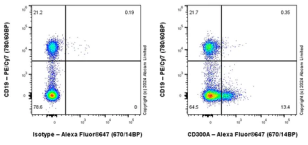
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

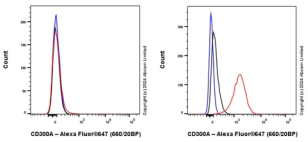
4 product images



Flow Cytometry - Anti-CD300a antibody [EPR27995-84] (ab320719)

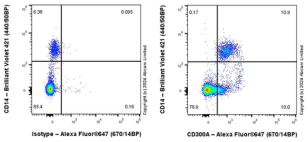
Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling CD300a with ab320719 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control. Goat anti-Rabbit IgG (Alexa Fluor® 647,

ab150083) at 1/5000 dilution was used as the secondary antibody. Cells were co-stained with anti human CD19 conjugated to PE/Cy7. Gated on viable Lymphocytes.



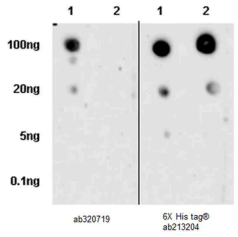
Flow Cytometry - Anti-CD300a antibody [EPR27995-84] (ab320719)

Flow cytometric analysis of THP-1 (human monocytic leukemia monocyte) (Right) / 293T (human embryonic kidney epithelial cell) (Left) cells labelling CD300a with ab320719 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® 647, ab150083) at 1/5000 dilution was used as the secondary antibody. Gated on viable cells. Negative control: 293T (PMID: 22043923).



Flow Cytometry - Anti-CD300a antibody [EPR27995-84] (ab320719)

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling CD300a with ab320719 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control. Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody. Cells were co-stained with anti human CD14 conjugated to Brilliant Violet 421. Gated on viable cells.



Dot Blot - Anti-CD300a antibody [EPR27995-84] (ab320719)

CD300a Dot Blot staining using rabbit Anti-CD300a antibody

Dot blot analysis of CD300a using ab320719 at 1:1000 (0.496 ug/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution.

Lane 1: 293T cells transfected with a human CD300a expression vector containing a myc-His-tag® whole cell lysate.

Lane 2: 293T cells transfected with a human CD300c expression vector containing a myc-His-tag® whole cell lysate.

Blocking and diluting buffer and concentration: 5% NFDM/TBST

This antibody does not cross-react with overexpressed human CD300c by dot blot.

This blot was developed using a high sensitivity ECL substrate. The high-sensitivity ECL substrate used allows for the detection of proteins in the mid-femtogram range.

All lanes:
Dot Blot - Anti-CD300a antibody [EPR27995-84] (ab320719) at 1/1000 dilution

Lane 1:
293T cells transfected with a human CD300a expression vector containing a myc-His-tag® whole cell lysate

Lane 2:
293T cells transfected with a human CD300c expression vector containing a myc-His-tag® whole cell lysate

Secondary

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

Developed using the ECL technique.

Exposure time: 180s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.