abcam

ab282587

Anti-CD200R antibody [EPR24937-48] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR24937-48
Purification technique	Affinity purification Protein A
Concentration	1.015 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Mouse, Human, Rat
Dilution info	-

Notes	-

IP

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-

Notes	-

Target data

See full target information CD200R1

Function	Inhibitory receptor for the CD200/OX2 cell surface glycoprotein. Limits inflammation by inhibiting the expression of pro-inflammatory molecules including TNF, interferons, and inducible nitric oxide synthase (iNOS) in response to selected stimuli. Also binds to HHV-8 K14 viral CD200 homolog with identical affinity and kinetics as the host CD200.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab282587 is the carrier-free version of ab259793.

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

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.

Compatibility
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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CD200R also known as CD200 receptor is a protein expressed mainly on myeloid cells including macrophages dendritic cells and certain T cells. The protein has a molecular mass of approximately 62 kDa. This receptor is a type I membrane glycoprotein that plays an important role in immune system regulation. It binds to its ligand CD200 protein found on various cell types such as neurons epithelial cells and some immune cells to mediate suppressive effects on the immune response.
Biological function summary	CD200R plays a significant role in controlling the immune response by acting as an inhibitory receptor. When activated it sends signals that dampen immune cell activity which can prevent overactive immune responses and promote tissue homeostasis. This receptor is not part of a large receptor complex but interacts directly with its ligand CD200 to initiate signaling cascades that modulate immune functions. Its primary role lies in preventing unnecessary inflammation and autoimmunity through negative regulation of macrophage activation.
Pathways	CD200R is involved in the regulatory pathways of the immune system. It participates in pathways that manage immune tolerance and its interactions impact pathways related to inflammation control and tissue repair. The CD200R signaling cascades intersect with pathways involving other immune-modulatory proteins such as CD200R1 and CD200R3 which contribute to cellular communication in the immune environment. These pathways play critical roles in downregulating inflammatory responses and maintaining immune balance.
Associated diseases and disorders	CD200R holds relevance for conditions involving immune dysregulation. It is connected to autoimmune disorders and atopic dermatitis. For example in atopic dermatitis altered expression or function of CD200R may lead to improper immune responses contributing to inflammation. Furthermore CD200R agonists which are molecules that mimic the function of CD200 are an area of interest for developing therapeutic strategies to modulate immune responses. Related proteins such as CD200 and its other receptor variants play active roles in these disorders highlighting the importance of their balanced function to maintain immune homeostasis.

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.

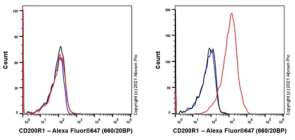
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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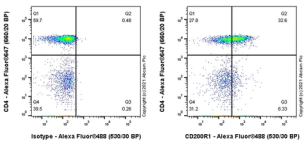
2 product images



Flow Cytometry - Anti-CD200R antibody [EPR24937-48] - BSA and Azide free (ab282587)

CD200R Flow Cytometry staining using rabbit Anti-CD200R antibody

This data was developed using ab259793, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of HepG2 (human hepatocellular carcinoma epithelial cell, Left)/ HEL (human erythroleukemia erythroblast, Right) cells labelling CD200R1 with ab259793 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, ab150079) at 1/2000 dilution was used as the secondary antibody. **Negative control**: HepG2. Gated on viable cells.



Flow Cytometry - Anti-CD200R antibody [EPR24937-48] - BSA and Azide free (ab282587)

CD200R Flow Cytometry staining using rabbit Anti-CD200R antibody

This data was developed using ab259793, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling CD200R1 with ab259793 at 1/500 dilution (0.1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control. 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 ab259793. Then stained with anti-CD4 conjugated to Alexa Fluor® 647. Gated on viable cells.

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