abcam

ab290737

Anti-CD32B antibody [AT130-5]

Recombinant

Key facts

Isotype	IgG1
Host species	Mouse
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
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Clone number	AT130-5
Purification technique	Affinity purification Protein A
Concentration	1.11 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Dot

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Recombinant full length protein - Mouse

Dilution info	1/1000
Notes	-

Not recommended

Species	Human, Rat
Dilution info	-
Notes	-

ICC

Expected

Species	Mouse
Dilution info	1/250
Notes	-

Not recommended

Species	Recombinant full length protein - Mouse, Human, Rat
Dilution info	-
Notes	-

WB

Not recommended

Species	Human, Mouse, Rat, Recombinant full length protein - Mouse
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-

Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Recombinant full length protein - Mouse
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Not recommended

Species	Recombinant full length protein - Mouse, Human, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/1000

Notes	-

Not recommended

Species	Human, Recombinant full length protein - Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information Fcgr2

Function	Receptor for the Fc region of complexed immunoglobulins gamma. Low affinity receptor. Involved in a variety of effector and regulatory functions such as phagocytosis of antigen-antibody complexes from the circulation and modulation of antibody production by B-cells. Isoform IIB1 and isoform IIB1' form caps but fail to mediate endocytosis or phagocytosis. Isoform IIB2 can mediate the endocytosis of soluble immune complexes via clathrin-coated pits. Isoform IIB1 and isoform IIB2 can down-regulate B-cell, T-cell, and mast cell activation when coaggregated to B-cell receptors for AG (BCR), T-cell receptors for AG (TCR), and Fc receptors, respectively.

Storage

Shipped at conditions	Blue Ice
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

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

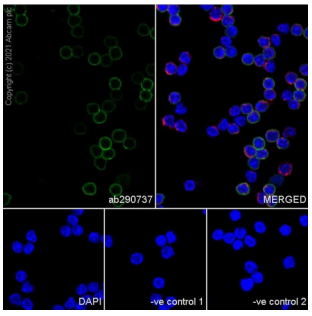
We do not recommend this combination. It is not covered by our product promise.

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.

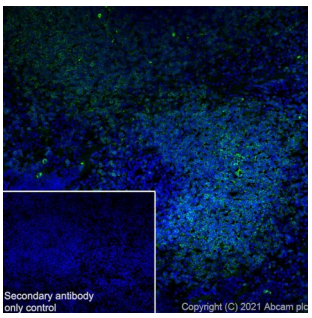
Full details and terms and conditions can be found here:
Terms & Conditions.

4 product images



Immunocytochemistry/ Immunofluorescence - Anti-CD32B antibody [AT130-5] (ab290737)

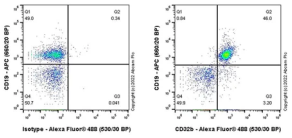
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse splenocytes cells labelling CD32B with ab290737 at 1/250 dilution (4.44 µg/ml), followed by ab150117 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 µg/mL) (Green). Confocal image showing membranous and cytoplasmic staining in subsets of mouse splenocytes is observed. ab179513 Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution (10 µg/ml) (Red). The Nuclear counterstain was DAPI (Blue). The negative controls are as follows: -ve control 1: ab290737 at 1/250 dilution followed by ab150080 at 1/500 dilution. -ve control 2: ab179513 at 1/200 dilution followed by 150117 at 1/1000 dilution.



Immunohistochemistry (Frozen sections) - Anti-CD32B antibody [AT130-5] (ab290737)

CD32B Immunohistochemistry (Frozen sections) staining of Mouse Spleen using mouse Anti-CD32B antibody

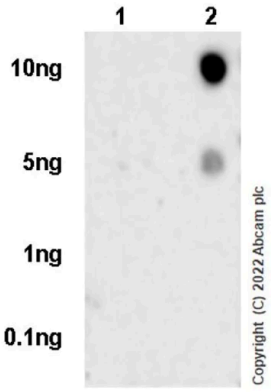
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse spleen (fresh) tissue labeling CD32B with ab290737 at 1/100 (11.1 µg/ml) dilution followed by ab150113 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (2 µg/ml) (Green). Positive staining on mouse spleen is observed. The nuclear counterstain was DAPI (Blue). Secondary antibody control: PBS was used instead of primary antibody followed by secondary antibody ab150113 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488)at 1/1000 dilution (2 µg/ml).



Flow Cytometry - Anti-CD32B antibody [AT130-5] (ab290737)

CD32B Flow Cytometry staining of Mouse peripheral blood mononuclear cells (PBMCs) cells using mouse Anti-CD32B antibody

Flow cytometric analysis of mouse peripheral blood mononuclear cells (PBMCs) cells labelling CD32B with ab290737 at 1/1000 dilution (0.1 µg)/ Right compared with a mouse monoclonal IgG / Left isotype control. Goat anti-Mouse IgG (Alexa Fluor® 488, ab150113) at 1/5000 dilution was used as the secondary antibody. Cells were stained with mouse IgG or ab290737, then stained with rabbit anti-mouse CD19 (ab267394) conjugated to APC. The conjugation was performed by using APC Conjugation Kit - Lightning-Link® (ab201807). Gated on viable cells.



Dot Blot - Anti-CD32B antibody [AT130-5] (ab290737)

CD32B Dot Blot staining using mouse Anti-CD32B antibody

Dot blot analysis of CD32B using ab290737 at 1:1000 (0.538 µg/ml) followed by a Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1:10,000 dilution. Lane 1: His-tag mouse Recombinant CD16/FCGR3 Protein Lane 2: His-tag mouse Recombinant CD32B/FCGR2B Protein Exposure time: 3 minutes Blocking and diluting buffer and concentration: 5% NFDM/TBST
All lanes:
Dot Blot - Anti-CD32B antibody [AT130-5] (ab290737) at 1/1000 dilution

Lane 1:
His-tag mouse Recombinant CD16/FCGR3 Protein

Lane 2:
His-tag mouse Recombinant CD32B/FCGR2B Protein

Secondary

All lanes:
Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

Exposure time: 3min

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