abcam

ab282740

Anti-CD32 antibody [AT130-2]

Recombinant

Key facts

Isotype	IgG2a
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
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	AT130-2
Purification technique	Affinity purification Protein A
Concentration	0.946 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Not recommended

Species	Rat, Human
Dilution info	-
Notes	-

WB

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Not recommended

Species	Rat, Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Not recommended

Species	Rat, Human
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.

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

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

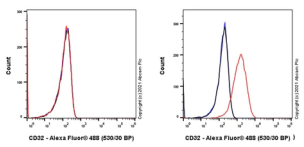
We do not recommend this combination. It is not covered by our product promise.

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.

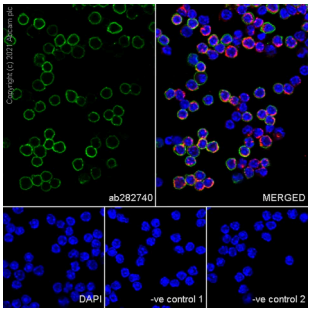
5 product images



Flow Cytometry - Anti-CD32 antibody [AT130-2] (ab282740)

CD32 Flow Cytometry staining using mouse Anti-CD32 antibody

Flow cytometric analysis of bEnd.3 (mouse brain endothelioma, Left) / J774A.1 (mouse reticulum cell sarcoma monocyte macrophage, Right) labelling CD32 with ab282740 at 1/1000 dilution (0.1 µg), followed by Goat anti mouse IgG (Alexa Fluor® 488, ab150113) antibody at 1/2000 dilution (Red) compared with Mouse monoclonal IgG (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Gated on viable cells.
Negative control: bEnd.3.

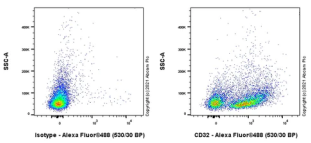


Immunocytochemistry/ Immunofluorescence - Anti-CD32 antibody [AT130-2] (ab282740)

CD32 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-CD32 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse spleen cells labelling CD32 with ab282740 at 1/50 dilution (18.92 µg/ml) (Green). Confocal image showing cytoplasmic staining in mouse spleen cells. ab150117 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed was used as a secondary at 1/1000 dilution (2 µg/ml). ab179513 Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution, followed by ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) secondary counterstain at 1/500 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Negative control 1: secondary counterstain antibody only control.

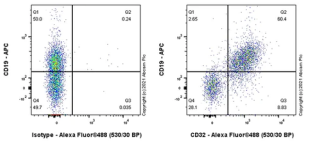
Negative control 2: primary counterstain and target secondary antibody control.



Flow Cytometry - Anti-CD32 antibody [AT130-2] (ab282740)

CD32 Flow Cytometry staining using mouse Anti-CD32 antibody

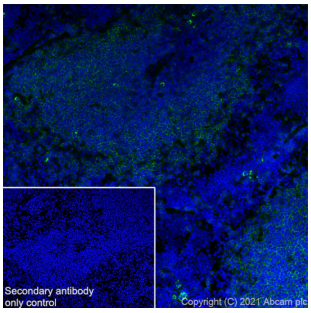
Flow cytometric analysis of mouse splenocytes cells labelling CD32 with ab282740 at 1/1000 dilution (0.1 µg / Right) compared with a Mouse monoclonal IgG (Left) isotype control. Goat anti mouse IgG (Alexa Fluor® 488, ab150113) was used as a secondary antibody at 1/2000 dilution. Gated on viable cells.



Flow Cytometry - Anti-CD32 antibody [AT130-2] (ab282740)

CD32 Flow Cytometry staining using mouse Anti-CD32 antibody

Flow cytometric analysis of mouse splenocytes cells labelling CD32 with ab282740 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) was used as a secondary antibody at 1/2000 dilution. Cells were stained with mouse IgG or ab282740. 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.



Immunohistochemistry (Frozen sections) - Anti-CD32 antibody [AT130-2] (ab282740)

CD32 Immunohistochemistry (Frozen sections) staining using mouse Anti-CD32 antibody

Immunohistochemical analysis of 4% PFA fixed, 0.2% Triton X-100 permeabilised Mouse spleen (fresh) tissue labeling CD32 with ab282740 at 1/100 (5.0 µg/ml), followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary antibody. Positive staining on mouse spleen. Counterstained with DAPI.

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