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Product datasheet

Anti-CD16+CD32 antibody [93] - BSA and Azide free ab25235

14 References 2 Images

Overview

Product name	Anti-CD16+CD32 antibody [93] - BSA and Azide free
Description	Rat monoclonal [93] to CD16+CD32 - BSA and Azide free
Host species	Rat
Tested applications	**Suitable for:** Flow Cyt, Blocking, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Tissue, cells or virus. Sorted Mouse pre-B cells
Epitope	ab25235 reacts with a conformational epitope formed by CD16 Fc gamma II and CD32 Fc gamma III receptors.
Positive control	ICC: HeLa cells Flow Cyt: C57BL/6 splenocytes.
General notes	This product was changed from ascites to tissue culture supernatant on 02/08/2019. Lot numbers higher than GR3269503 are from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Do Not Freeze.
Storage buffer	Constituent: PBS
Carrier free	Yes

Purity	Protein G purified
Clonality	Monoclonal
Clone number	93
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab25235 in the following tested applications.

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

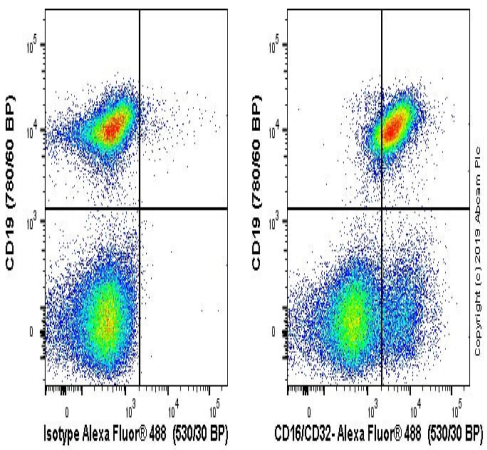
Application	Abreviews	Notes
Flow Cyt		Use a concentration of 5 µg/ml. **ab18536** - Rat monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
Blocking		Use at an assay dependent concentration. ab25235 can be used for blocking of Fc gamma receptors.
ICC/IF		Use a concentration of 10 µg/ml.

Target

Relevance Function: Binds to the Fc region of immunoglobulins gamma. Low affinity receptor. By binding to IgG it initiates cellular responses against pathogens and soluble antigens. Promotes phagocytosis of opsonized antigens. Tissue specificity: Found on monocytes, neutrophils and eosinophil platelets. Similarity: Contains 2 Ig-like C2-type (immunoglobulin-like) domains. PTM: Phosphorylated by SRC-type Tyr-kinases such as LYN, BLK, FYN, HCK and SYK.

Cellular localization CD32: Type I membrane protein. CD16: Attached to the membrane by a GPI anchor. Exists also as a soluble receptor, produced by a proteolytic cleavage.

Images



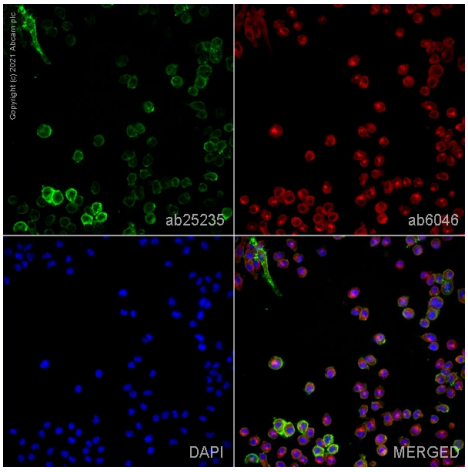
Flow Cytometry - Anti-CD16+CD32 antibody [93] - BSA and Azide free (ab25235)

C57BL/6 mouse splenocytes stained with ab25235 (right) or Rat IgG2aκ (**ab18450**) isotype (left). C57BL/6 mouse splenocytes were incubated for 30 min on ice in PBS / 10 % mouse serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab25235) or Rat IgG2aκ (**ab18450**) ($1x10^6$ in 100µl at 5 µg/ml) for 30 min on ice.

The secondary antibody Goat anti-rat IgG H&L (Alexa Fluor ® 488, pre-adsorbed) (**ab150165**) was used at 1/2000 dilution for 30 min at 4°C. The cells were simultaneously stained with CD19 antibody.

Acquisition of >30,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. Events were gated on viable lymphocytes.

This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-CD16+CD32 antibody [93] - BSA and Azide free (ab25235)

ab25235 staining CD16 + CD32 in Raw264.7 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab25235 at 10µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150165**, Goat polyclonal Secondary Antibody to Rat IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.

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