

## Product datasheet

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

[7 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-CD16+CD32 antibody [93] - BSA and Azide free
<b>Description</b>	Rat monoclonal [93] to CD16+CD32 - BSA and Azide free
<b>Host species</b>	Rat
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, Flow Cyt, Blocking
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Tissue, cells or virus. Mouse B cells
<b>Epitope</b>	ab25235 reacts with a conformational epitope formed by CD16 Fc gamma II and CD32 Fc gamma III receptors.
<b>Positive control</b>	ICC/IF: RAW246.7 cells. Flow Cyt: C57BL/6 splenocytes.
<b>General notes</b>	<p>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.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions,</p>

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, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	93
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

## Applications

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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
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. <a href="#">ab18536</a> - 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.

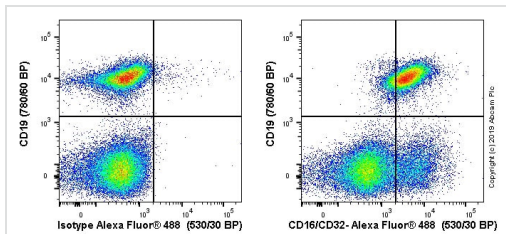
## Target

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<b>Relevance</b>	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.
<b>Cellular localization</b>	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

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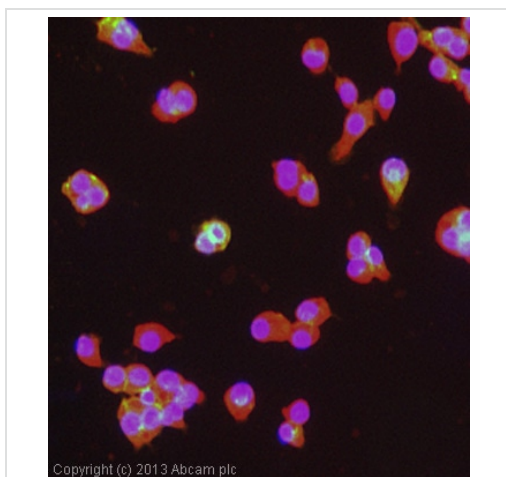


Flow Cytometry - Anti-CD16+CD32 antibody [93] - BSA and Azide free (ab25235)

C57BL/6 mouse splenocytes stained with ab25235 (right) or Rat IgG2 $\kappa$  (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 IgG2 $\kappa$  (ab18450) ( $1 \times 10^6$  in 100 $\mu$ l at 5  $\mu$ g/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)

ICC/IF image of ab25235 stained RAW246.7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab25235, 10 $\mu$ g/ml) overnight at +4°C. The secondary antibody (green) was ab98420, DyLight® 488 goat anti-rat IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43 $\mu$ M.

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

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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