

Anti-CD16 antibody [EPR22409-124] - BSA and Azide free ab252908

Recombinant RabMAb

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

Overview

Product name	Anti-CD16 antibody [EPR22409-124] - BSA and Azide free
Description	Rabbit monoclonal [EPR22409-124] to CD16 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, Flow Cyt, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human spleen and colon cancer lysates. IP: Human spleen lysate. IHC-P: Human spleen and liver tissue. ICC/IF: Human PBMCs. Flow cyt: Human PBMCs.
General notes	ab252908 is the carrier-free version of ab246222 .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

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.

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.

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 production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22409-124
Isotype	IgG

Applications

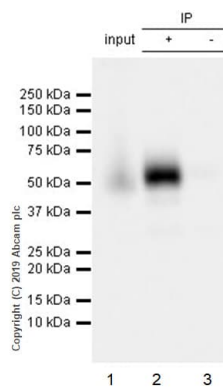
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab252908 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 50-70 kDa (predicted molecular weight: 29 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Function	Receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis.
Tissue specificity	Expressed on natural killer cells, macrophages, subpopulation of T-cells, immature thymocytes and placental trophoblasts.
Sequence similarities	Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
Post-translational modifications	Glycosylated. Contains high mannose- and complex-type oligosaccharides. The soluble form is produced by a proteolytic cleavage.
Cellular localization	Cell membrane. Secreted. Exists also as a soluble receptor.

Images



Immunoprecipitation - Anti-CD16 antibody
[EPR22409-124] - BSA and Azide free (ab252908)

CD16 was immunoprecipitated from 0.35 mg of human spleen lysate with **ab246222** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab246222** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: Human spleen lysate 10 µg (Input).

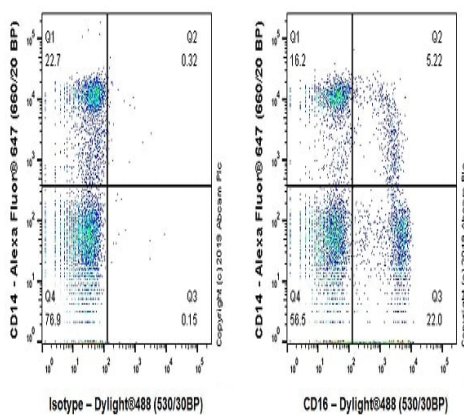
Lane 2: **ab246222** IP in human spleen lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab246222** in human spleen lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 5 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246222**).

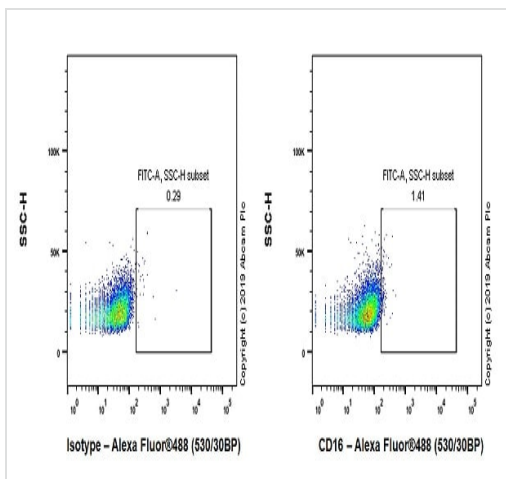


Flow Cytometry - Anti-CD16 antibody [EPR22409-124] - BSA and Azide free (ab252908)

Human PBMCs (human peripheral blood mononuclear cells) were stained with Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**)(Left) or **ab246222** (Right) followed by a Goat anti rabbit IgG (Dylight® 488) at 1/2000 dilution. They were then stained with Alexa Fluor® 647-conjugated anti-CD14. The expression pattern is consistent with what described in the literature. (PMID: 21738687)

Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246222**).



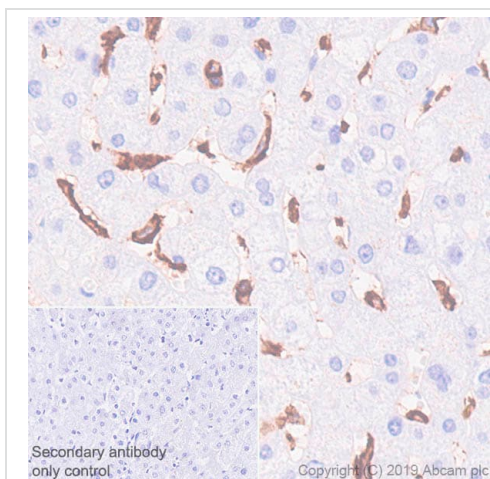
Flow Cytometry - Anti-CD16 antibody [EPR22409-124] - BSA and Azide free (ab252908)

Negative control: Raji. (PMID:11207281).

Raji (human Burkitt's lymphoma cell line) were stained with Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (Left) or **ab246222** (Right) followed by a Goat anti rabbit IgG (Dylight® 488) at 1/2000 dilution.

Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246222**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16 antibody [EPR22409-124] - BSA and Azide free (ab252908)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling CD16 with **ab246222** at 1/500 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on Kuffer cells of human liver (PMID: 26512139) is observed. Counter stained with hematoxylin.

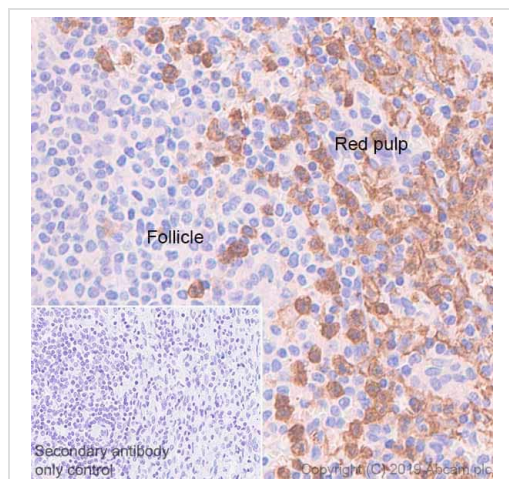
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 minutes.

The section was incubated with **ab246222** for 10 minutes at 37°.

The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246222**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16 antibody [EPR22409-124] - BSA and Azide free (ab252908)

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling CD16 with [ab246222](#) at 1/500 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on red pulp of human spleen (PMID: 26512139; 29692344). Counter stained with hematoxylin.

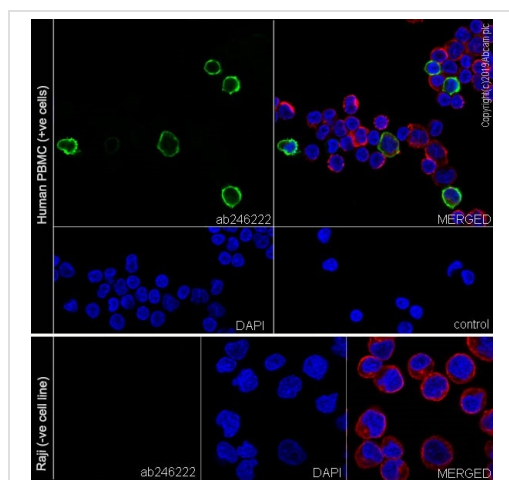
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 minutes.

The section was incubated with [ab246222](#) for 10 minutes at 37°C.

The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab246222](#)).



Immunocytochemistry/ Immunofluorescence - Anti-CD16 antibody [EPR22409-124] - BSA and Azide free (ab252908)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized human PBMCs (human peripheral blood mononuclear cells) or Raji (human Burkitt's lymphoma cell line) cell line labeling CD16 with [ab246222](#) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green).

Confocal image showing membranous staining in subsets of human PBMC cells. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

Negative control: Raji (PMID:11207281).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab246222](#)).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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