abcam

Product datasheet

Anti-CD16a antibody [SP189] - BSA and Azide free ab243936

Recombinant RabMAb

15 Images

Overview

Product name	Anti-CD16a antibody [SP189] - BSA and Azide free
Description	Rabbit monoclonal [SP189] to CD16a - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human lung, liver, thymus, spleen, placenta, B-cell lymphoma, cervical squamous cell carcinoma, colon carcinoma, HK lymphoma, stomach carcinoma, and liver hepatocellular carcinoma tissue; Flow Cyt: Jurkat cells.
General notes	ab243936 is the carrier-free version of **ab227665**. 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**. **This product is FOR RESEARCH USE ONLY. For commercial use, please contact**

partnerships@abcam.com.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP189
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab243936 in the following tested applications.

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

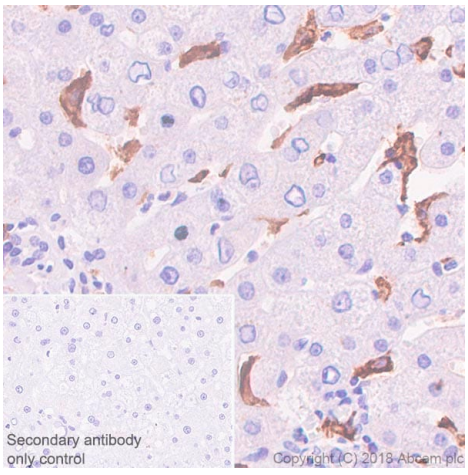
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 29 kDa.
IHC-P		Use at an assay dependent concentration. Antigen retrieval: Boil tissue section in EDTA buffer, pH 8.0 for 10 minutes followed by cooling at room temperature for 20 minutes.

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.
Involvement in disease	Immunodeficiency 20
Sequence similarities	Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
Post-translational modifications	Glycosylated. Contains high mannose- and complex-type oligosaccharides. Glycosylation at Asn-180 is mandatory for high affinity binding to the Fc and for discrimination between fucosylated and afucosylated IgG glycoforms. The soluble form is produced by a proteolytic cleavage.

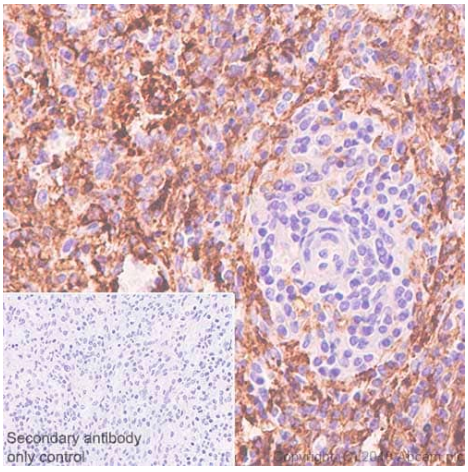
Cellular localization	Cell membrane. Secreted. Exists also as a soluble receptor.

Images



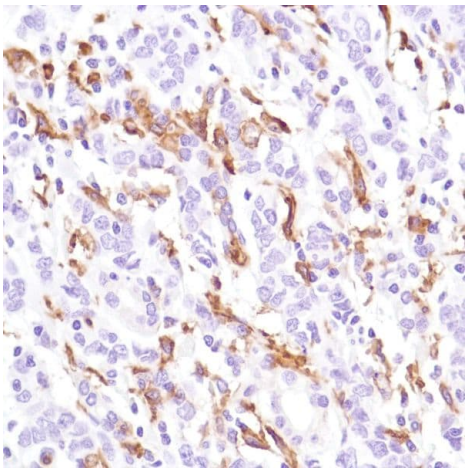
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling CD16a with **ab227665** at 1/100 dilution (1.47 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227665**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

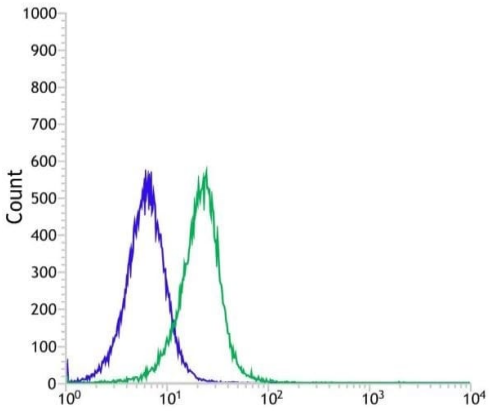
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human spleen tissue sections labeling CD16a with **ab227665** at 1/100 dilution (1.47 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227665**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human stomach adenocarcinoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

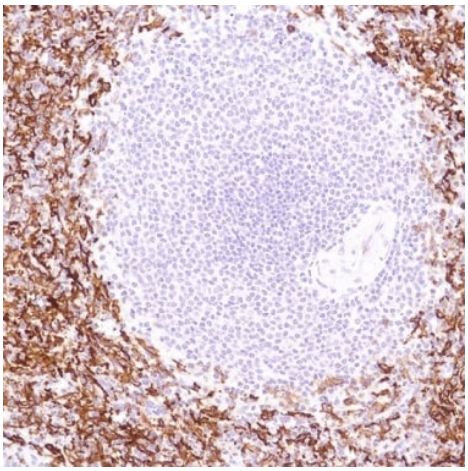
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Flow Cytometry - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Flow cytometric analysis of Jurkat (human T cell leukemia cell line from peripheral blood) cell line labeling CD16a with **ab227665** at 1/100 (green) compared with a rabbit isotype control (blue).

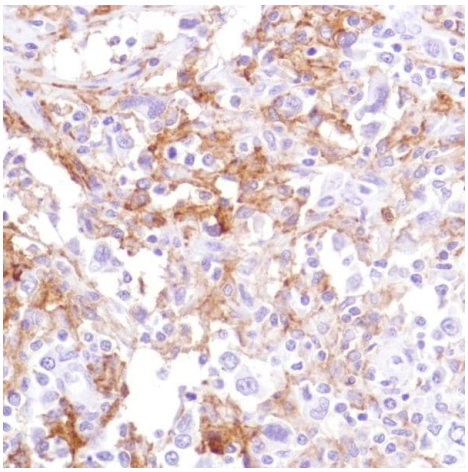
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human spleen tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

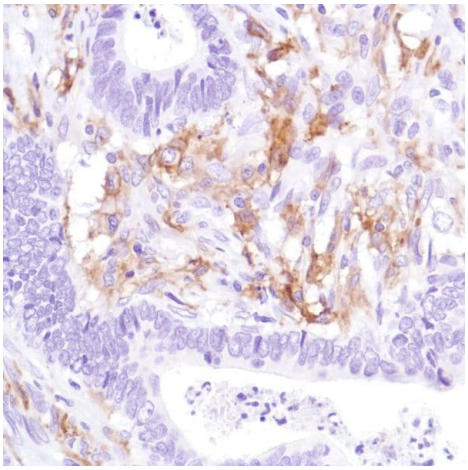
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human HK lymphoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

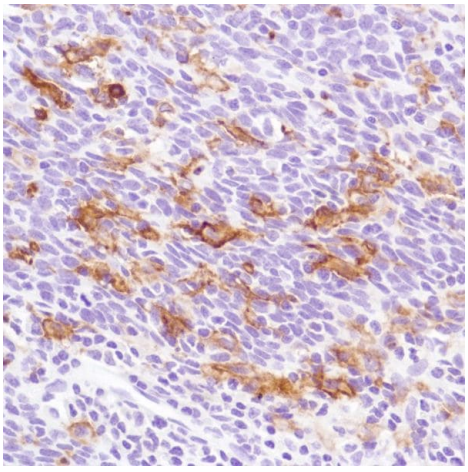
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

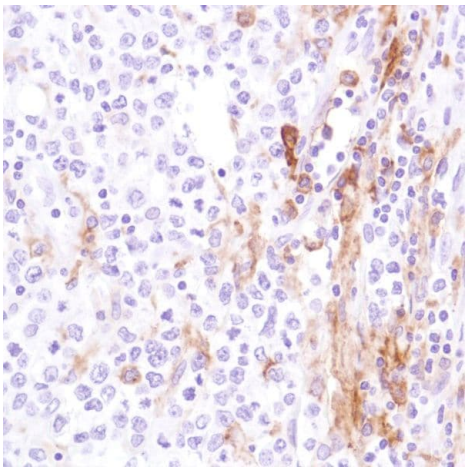
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human cervical squamous cell carcinoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

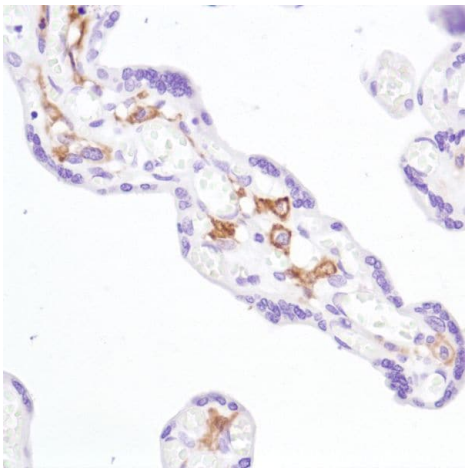
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human B-cell lymphoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

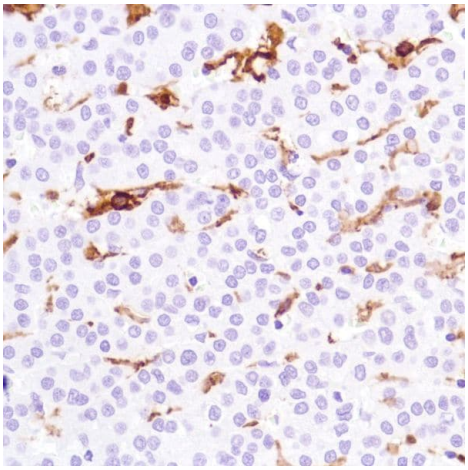
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human placenta tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

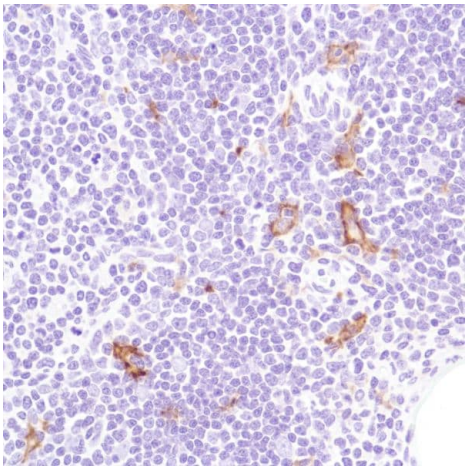
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human liver hepatocellular carcinoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

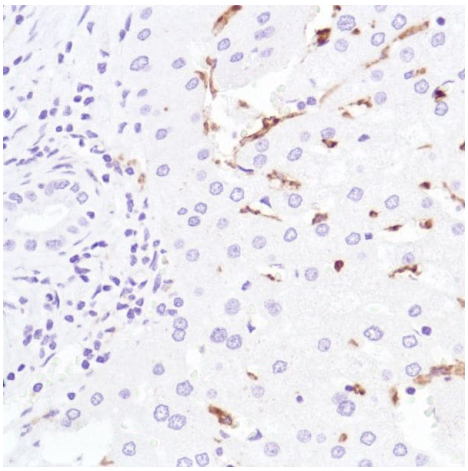
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human liver tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

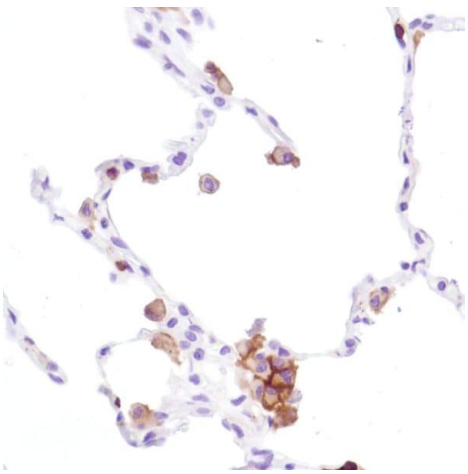
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human lung tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189] - BSA and Azide free (ab243936)

Formalin-fixed, paraffin-embedded human lung tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).

Anti-CD16a antibody [SP189] - BSA and Azide free

(ab243936)

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