

Product datasheet

Anti-CD16a antibody [SP189] - Low endotoxin, Azide free ab246798

Recombinant RabMAb

13 Images

Overview

Product name	Anti-CD16a antibody [SP189] - Low endotoxin, Azide free
Description	Rabbit monoclonal [SP189] to CD16a - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human CD16a aa 200 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P08637
Positive control	IHC-P: Human lung, liver, thymus, spleen, placenta, B-cell lymphoma, cervical squamous cell carcinoma, colon adenocarcinoma, HK lymphoma, stomach adenocarcinoma and liver hepatocellular carcinoma tissue. Flow cytometry: Jurkat cells.
General notes	FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com . ab246798 is a carrier-free antibody designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [Low endotoxin, azide-free formats](#) have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

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](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and

species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & 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.

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, as well as customer reviews and Q&As.

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	Endotoxin level is less than 1 EU/ml as determined by the TAL test
Clonality	Monoclonal
Clone number	SP189
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab246798** in the following tested applications.

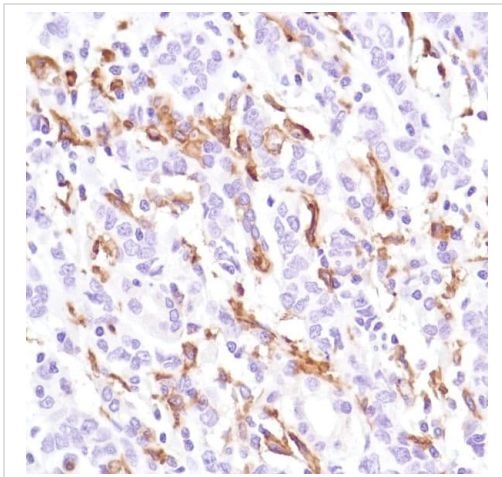
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
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.
WB		Use at an assay dependent concentration. Predicted molecular weight: 29 kDa.

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.

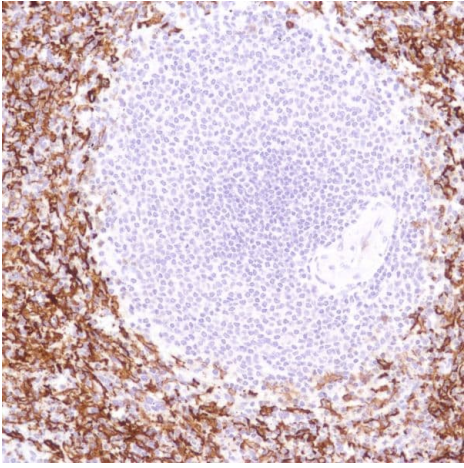
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
- Low endotoxin, Azide free (ab246798)

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

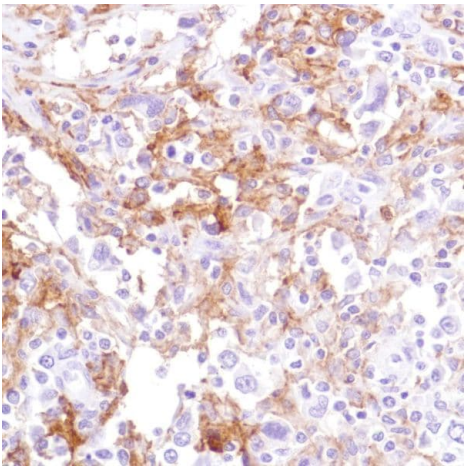
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227665](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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Formalin-fixed, paraffin-embedded human spleen tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.

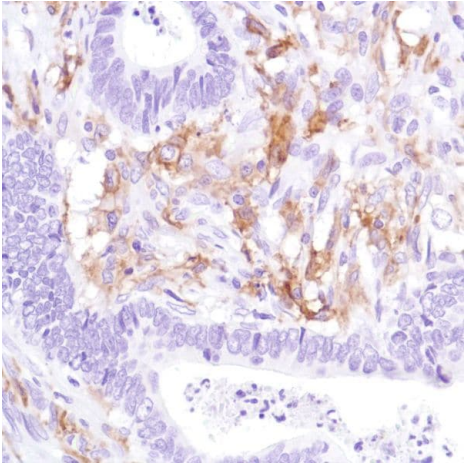
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227665](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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Formalin-fixed, paraffin-embedded human HK lymphoma tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.

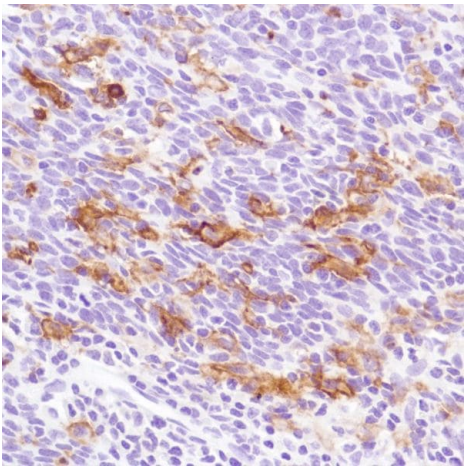
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227665](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.

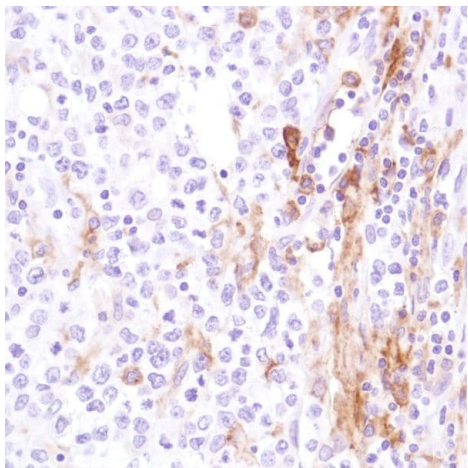
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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Formalin-fixed, paraffin-embedded human cervical squamous cell carcinoma tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.

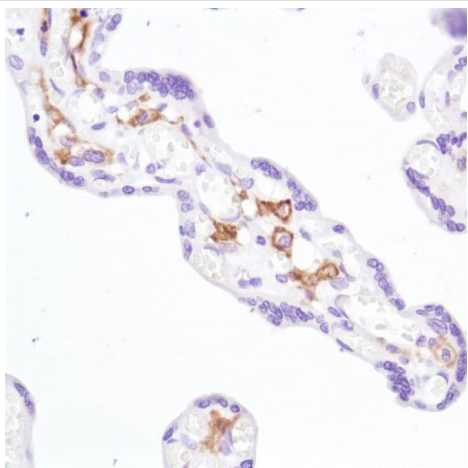
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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Formalin-fixed, paraffin-embedded human B-cell lymphoma tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.

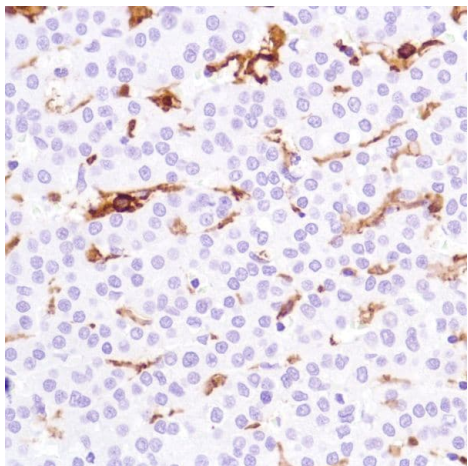
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab227665](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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Formalin-fixed, paraffin-embedded human placenta tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.

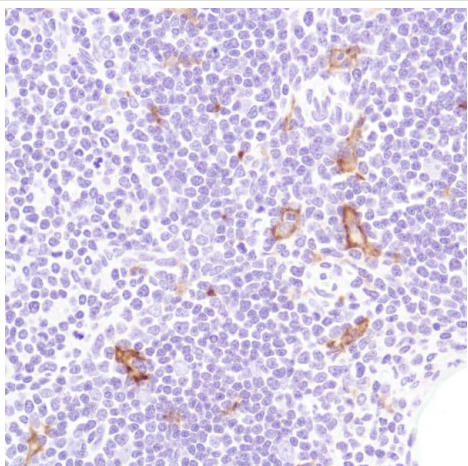
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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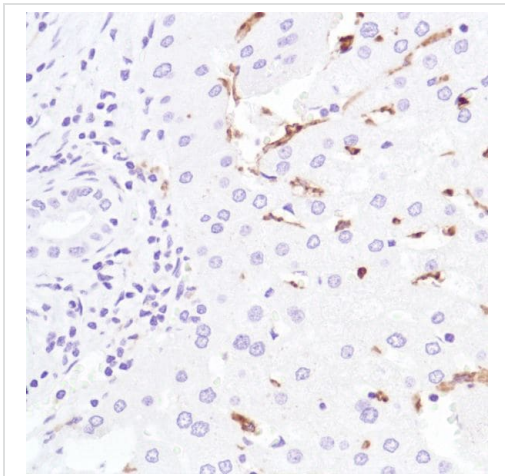
Formalin-fixed, paraffin-embedded human liver hepatocellular carcinoma tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.

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]
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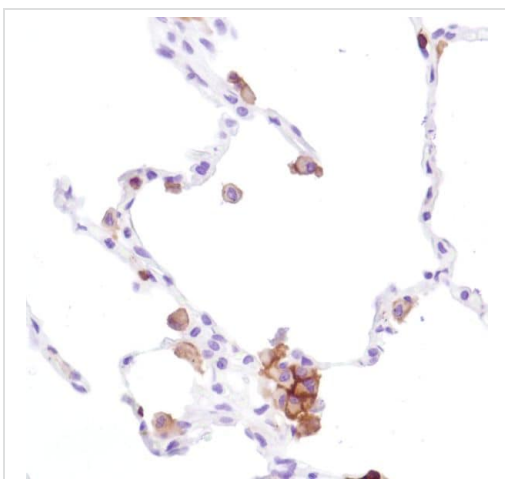
Formalin-fixed, paraffin-embedded human thymus tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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Formalin-fixed, paraffin-embedded human liver tissue stained for CD16a with [ab227665](#) at 1/100 dilution in immunohistochemical analysis.

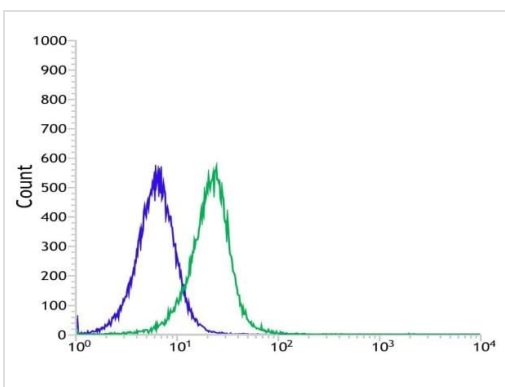
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16a antibody [SP189]
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Formalin-fixed, paraffin-embedded human lung tissue stained for CD16a with [ab227665](#) at 1/100 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](#)).



Flow Cytometry - Anti-CD16a antibody [SP189] -
Low endotoxin, Azide free (ab246798)

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](#)).

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

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