

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. 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 adenocarcinoma, HK lymphoma, stomach adenocarcinoma and liver hepatocellular carcinoma tissue. Flow cytometry: Jurkat cells.
General notes	<p>ab246798 is the carrier-free version of ab227665.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>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.</p>

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

Applications

The Abpromise guarantee 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

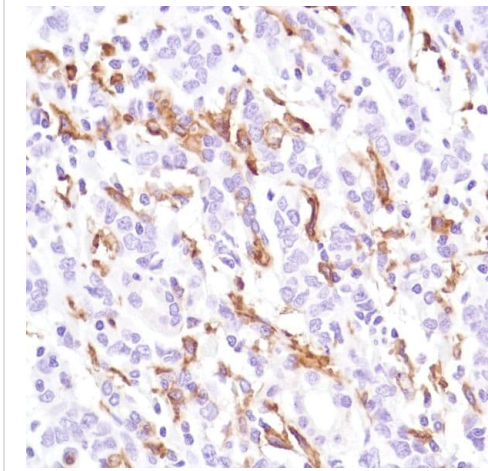
afucosylated IgG glycoforms.

The soluble form is produced by a proteolytic cleavage.

Cellular localization

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

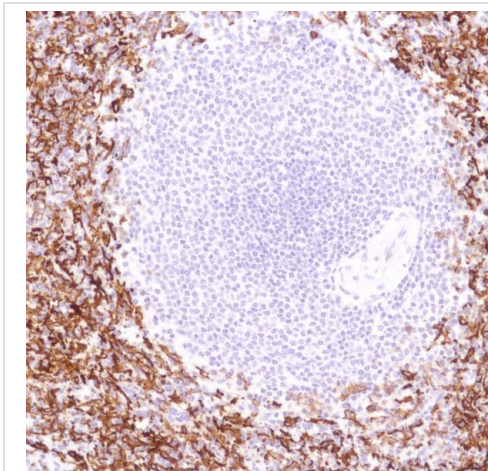
Images



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.

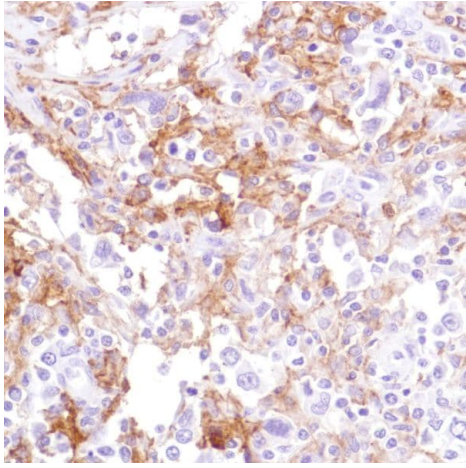
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab227665**).



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.

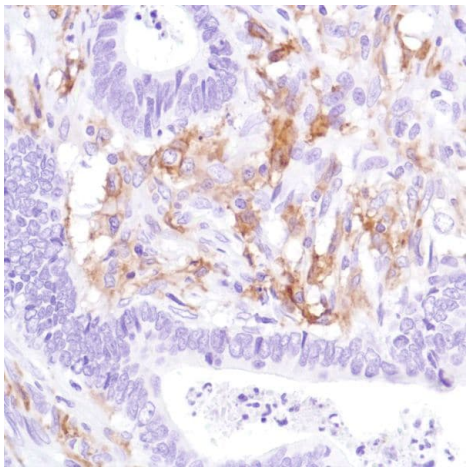
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Formalin-fixed, paraffin-embedded human HK lymphoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

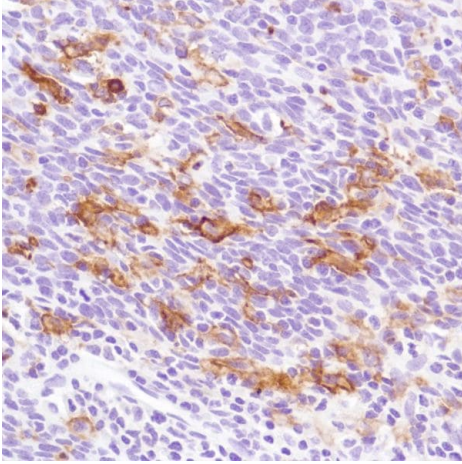
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Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

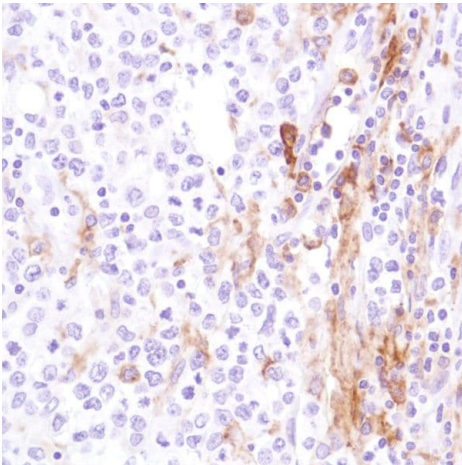
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Formalin-fixed, paraffin-embedded human cervical squamous cell carcinoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

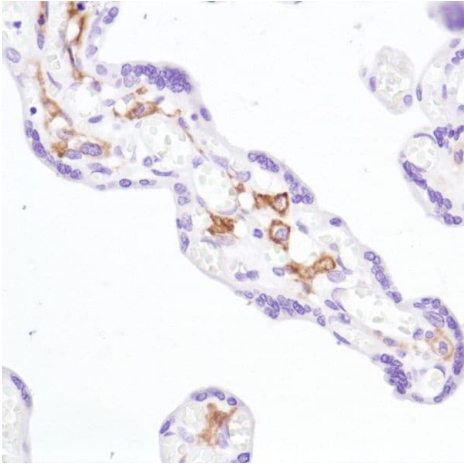
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Formalin-fixed, paraffin-embedded human B-cell lymphoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

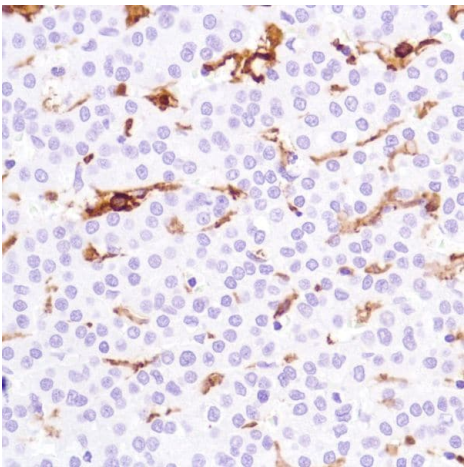
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Formalin-fixed, paraffin-embedded human placenta tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

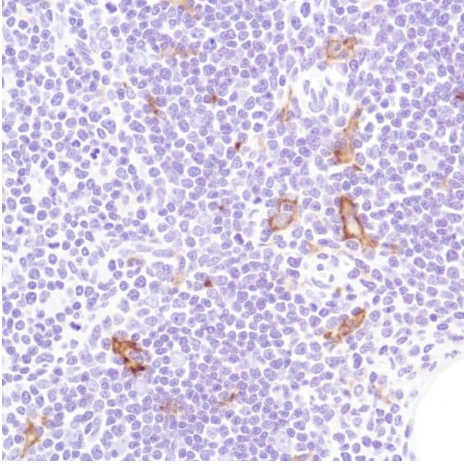
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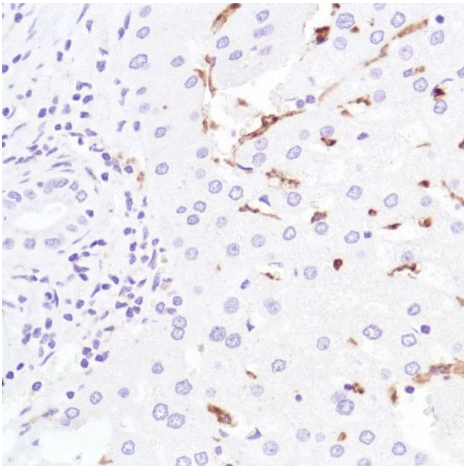
Formalin-fixed, paraffin-embedded human liver hepatocellular carcinoma tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

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



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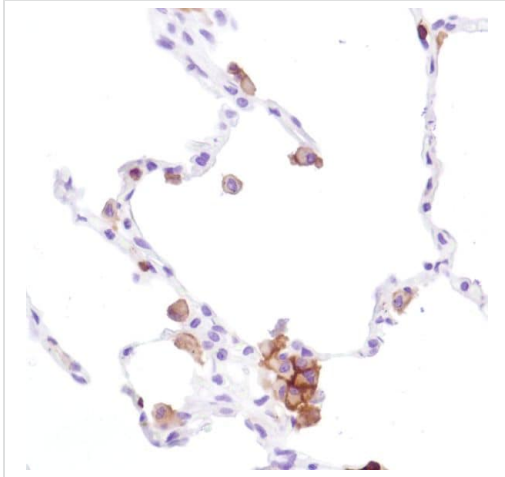
Formalin-fixed, paraffin-embedded human thymus tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.



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.

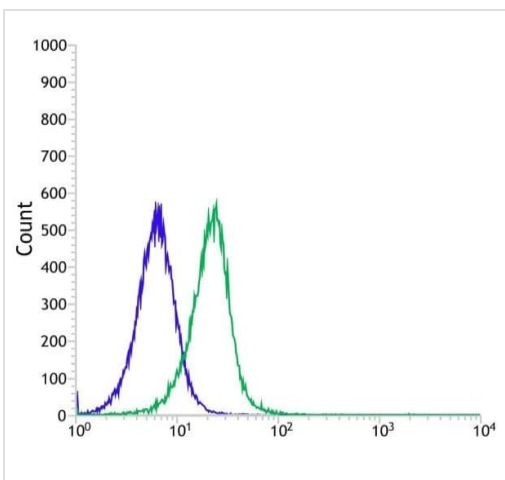
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Formalin-fixed, paraffin-embedded human lung tissue stained for CD16a with **ab227665** at 1/100 dilution in immunohistochemical analysis.

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] -
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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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