

Product datasheet

Anti-CD16 + CD32 antibody [EPR22345] ab228971

Recombinant RabMAb

4 Images

Overview

Product name	Anti-CD16 + CD32 antibody [EPR22345]
Description	Rabbit monoclonal [EPR22345] to CD16 + CD32
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment within Mouse CD16 aa 1-200. The exact sequence is proprietary. Database link: P08508
Positive control	WB: Mouse spleen, liver and thymus lysate. His-tagged mouse CD16 recombinant protein(aa31-215) and His-tagged mouse CD32 recombinant protein (aa30-210). J774A.1 and DC2.4 whole cell lysate. IHC-P: Mouse liver and colon tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR22345

Isotype IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab228971** in the following tested applications.

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

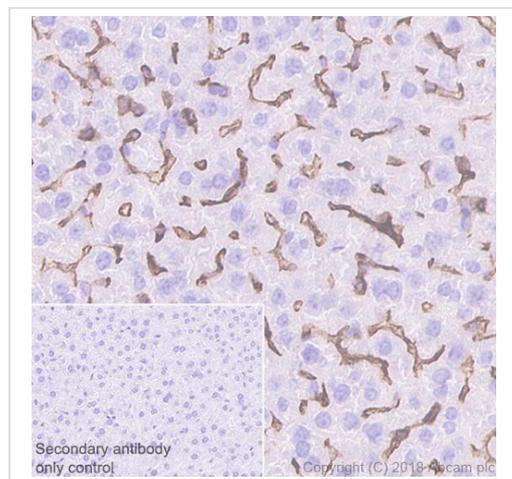
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 29 kDa.
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

Cellular localization CD16: Cell membrane. Secreted. Exists also as a soluble receptor. CD32: Cell membrane.

Images

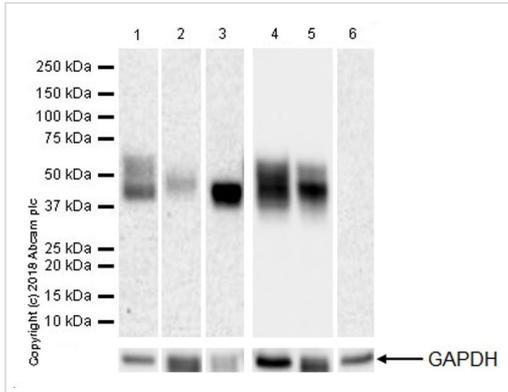


Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling CD16 with ab228971 at 1/4,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on Kupffer cells and sinusoidal cells of mouse liver (PMID:26512139) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16 + CD32 antibody [EPR22345] (ab228971)



Western blot - Anti-CD16 + CD32 antibody
[EPR22345] (ab228971)

All lanes : Anti-CD16 + CD32 antibody [EPR22345] (ab228971)
at 1/1000 dilution

Lane 1 : Mouse spleen lysate

Lane 2 : Mouse thymus lysate

Lane 3 : Mouse liver lysate

Lane 4 : J774A.1 (mouse reticulum cell sarcoma monocyte
macrophage) whole cell lysate

Lane 5 : DC2.4 (mouse dendritic cell) whole cell lysate

Lane 6 : bEnd.3 (mouse brain endothelioma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at
1/100000 dilution

Predicted band size: 29 kDa

Observed band size: 30-55 kDa

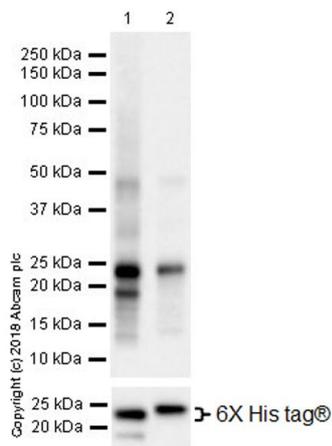
[why is the actual band size different from the predicted?](#)

Blocking/Dilution buffer: 5% NFDN/TBST.

Exposure times: Lanes 1,2,3 and 6: 3 minutes; Lanes 4 and 5: 15
seconds.

Bands between 30-55 KD are likely to be glycosylated forms of
CD16 and CD32 (PMID: 9378972, PMID: 19503602).

Negative control: bEnd.3 cell line (PMID: 23911392).



Western blot - Anti-CD16 + CD32 antibody
[EPR22345] (ab228971)

All lanes : Anti-CD16 + CD32 antibody [EPR22345] (ab228971)
at 1/1000 dilution

Lane 1 : His-tagged mouse CD16 recombinant protein (aa31-215), 20 ng

Lane 2 : His-tagged mouse CD32 recombinant protein (aa30-210), 20 ng

Secondary

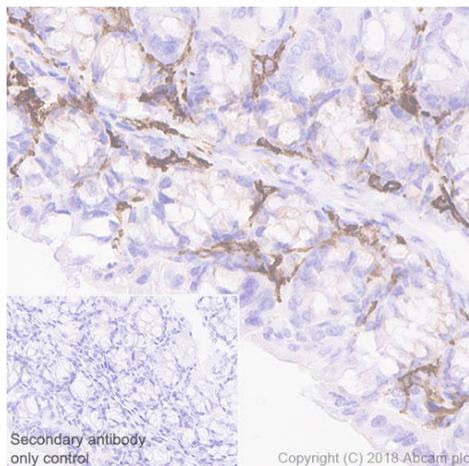
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at
1/100000 dilution

Predicted band size: 29 kDa

Observed band size: 21 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 6 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD16 + CD32 antibody
[EPR22345] (ab228971)

Immunohistochemical analysis of paraffin-embedded mouse colon tissue labeling CD16 with ab228971 at 1/4,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on stromal cells in mouse colon (PMID:26512139) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

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

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