abcam

Product datasheet

Anti-C4 binding protein/C4BPB antibody [EPR17101] ab199430



1 References 9 Images

Overview

Product name Anti-C4 binding protein/C4BPB antibody [EPR17101]

Description Rabbit monoclonal [EPR17101] to C4 binding protein/C4BPB

Host species Rabbit

Tested applications Suitable for: IHC-P, WB, IP, ICC/IF

Species reactivity Reacts with: Rat, Human

Immunogen Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: Human plasma and human ovary cancer cell extracts. Human serum. Rat plasma. IHC-P:

Human hepatocellular carcinoma and human bladder carcinoma tissue. Rat liver tissue. ICC/IF:

HepG2 cells. IP: Human serum.

General notesThis product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

Improved sensitivity and specificityLong-term security of supplyAnimal-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 pH: 7.2

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity Protein A purified

Clonality Monoclonal

1

Clone number EPR17101

Isotype IgG

Applications

The Abpromise guarantee

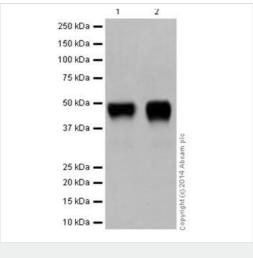
Our <u>Abpromise guarantee</u> covers the use of ab199430 in the following tested applications.

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

Application	Abreviews	Notes
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 45 kDa (predicted molecular weight: 28 kDa).
IP		1/80.
ICC/IF		1/250.

Target		
Function	Controls the classical pathway of complement activation. It binds as a cofactor to C3b/C4b inactivator (C3bINA), which then hydrolyzes the complement fragment C4b. It also accelerates the degradation of the C4bC2a complex (C3 convertase) by dissociating the complement fragment C2a. It also interacts with anticoagulant protein S and with serum amyloid P component. The beta chain binds protein S.	
Sequence similarities	Contains 3 Sushi (CCP/SCR) domains.	
Cellular localization	Secreted.	

Images



Western blot - Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430)

All lanes : Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430) at 1/1000 dilution

Lane 1: Human plasma

Lane 2: Human ovary cancer extract.

Lysates/proteins at 20 µg per lane.

Secondary

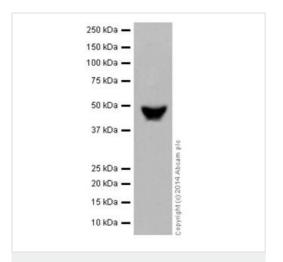
All lanes : Anti-Rabbit lgG (HRP), specific to the non-reduced form of lgG at 1/1000 dilution

Predicted band size: 28 kDa **Observed band size:** 45 kDa

Exposure time: 1 minute

Blocking/dilution buffer: 5% NFDM/TBST.

The observed MW is consistent with what has been described in the literature (PMID: 2300577)



Western blot - Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430)

Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430) at 1/10000 dilution + Human serum at 20 µg

Secondary

Anti-Rabbit lgG (HRP), specific to the non-reduced form of lgG at 1/1000 dilution

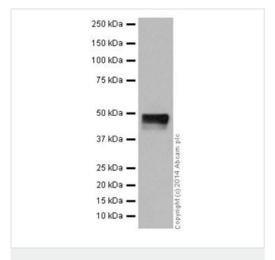
Predicted band size: 28 kDa **Observed band size:** 45 kDa

Exposure time: 1 minute

Blocking/dilution buffer: 5% NFDM/TBST.

The observed MW is consistent with what has been described in

the literature (PMID: 2300577)



Western blot - Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430)

Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430) at 1/1000 dilution + Rat plasma at 10 µg

Secondary

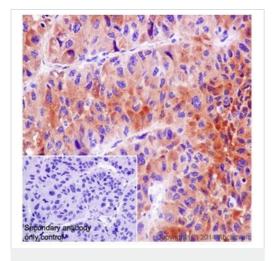
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 28 kDa **Observed band size:** 45 kDa

Exposure time: 30 seconds

Blocking/dilution buffer: 5% NFDM/TBST.

The observed MW is consistent with what has been described in the literature (PMID: 2300577)

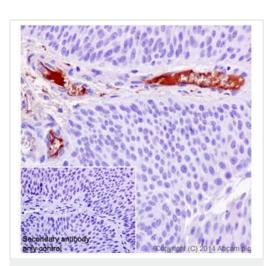


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430)

Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling C4 binding protein/C4BPB with ab199430 at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Human hepatocellular carcinoma tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary ab, secondary ab is Goat Anti-Rabbit lgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

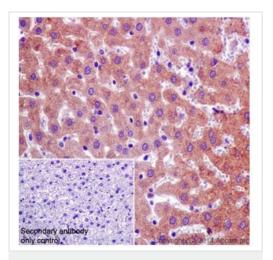


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430)

Immunohistochemical analysis of paraffin-embedded Human bladder carcinoma tissue labeling C4 binding protein/C4BPB with ab199430 at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Plasma staining on Human bladder carcinoma tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary ab, secondary ab is Goat Anti-Rabbit lgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

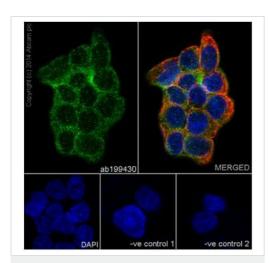


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430)

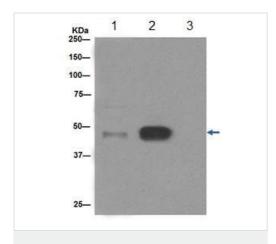
Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling C4 binding protein/C4BPB with ab199430 at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on rat liver tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary ab, secondary ab is Goat Anti-Rabbit lgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430)



Immunoprecipitation - Anti-C4 binding protein/C4BPB antibody [EPR17101] (ab199430)

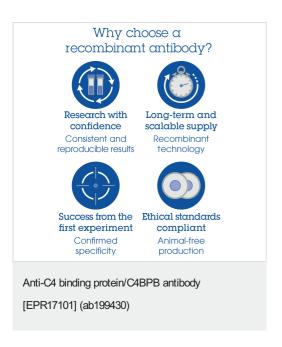
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (Human liver hepatocellular carcinoma) cells labeling C4 binding protein/C4BPB with ab199430 at 1/250 dilution, followed by Goat anti-rabbit lgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Confocal image showing cytoplasm staining on HepG2 cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:-

-ve control 1 - ab199430 at 1/250 dilution followed by <u>ab150120</u> (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2. - <u>ab7291</u> (anti-Tubulin mouse mAb) at 1/1000 dilution followed by <u>ab150077</u> (Alexa Fluor®488 Goat Anti-Rabbit lgG H&L) at 1/500 dilution.

C4 binding protein/C4BPB was immunoprecipitated from 1mg of Human serum with ab199430 at 1/80 dilution. Western blot was performed from the immunoprecipitate using ab199430 at 1/10000 dilution. Anti-Rabbit lgG (HRP), specific to the non-reduced form of lgG, was used as secondary antibody at 1/1500 dilution. Lane 1: Human serum 10 μ g. Lane 2: Human serum following immunoprecipitation. Lane 3: Rabbit monoclonal lgG (ab172730) instead of ab199430 in Human serum.

Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure: 10 seconds.



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