abcam

Product datasheet

Anti-Albumin antibody [EPR20195] ab207327

Recombinant RabMAb

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Overview

Product name	Anti-Albumin antibody [EPR20195]
Description	Rabbit monoclonal [EPR20195] to Albumin
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IP, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Full length native protein (purified) corresponding to Human Albumin aa 1 to the C-terminus. (Purified Proteins from Normal Serum). Database link: **P02768**
Positive control	WB: Human, mouse and rat liver and plasma lysates. Human serum lysates. Human fetal kidney and spleen lysates. Mouse and rat spleen and kidney lysates. HepG2, NIH/3T3 and PC-12 whole cell lysates. ICC/IF: HepG2 cells. Flow Cyt (intra): HepG2 cells. IP: HepG2 whole cell lysate.
General notes	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**. 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, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR20195
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab207327 in the following tested applications.

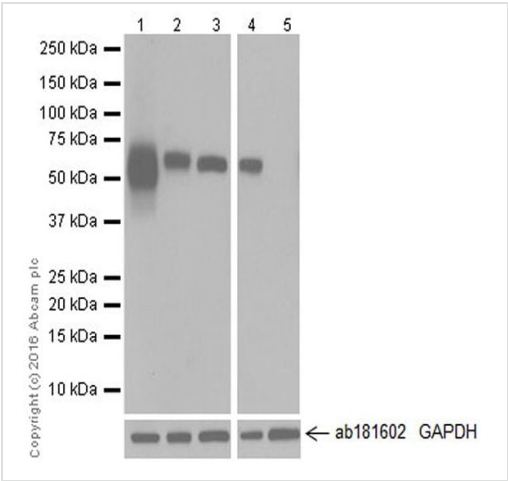
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/500. Permeabilization is required.
WB		1/2000. Detects a band of approximately 69 kDa (predicted molecular weight: 69 kDa).
IP		1/40.
ICC/IF		1/500.

Target

Function	Serum albumin, the main protein of plasma, has a good binding capacity for water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. Major zinc transporter in plasma, typically binds about 80% of all plasma zinc.
Tissue specificity	Plasma.
Involvement in disease	Defects in ALB are a cause of familial dysalbuminemic hyperthyroxinemia (FDH) [MIM:103600]. FDH is a form of euthyroid hyperthyroxinemia that is due to increased affinity of ALB for T(4). It is the most common cause of inherited euthyroid hyperthyroxinemia in Caucasian population.
Sequence similarities	Belongs to the ALB/AFP/VDB family. Contains 3 albumin domains.
Post-translational modifications	Kenitra variant is partially O-glycosylated at Thr-620. It has two new disulfide bonds Cys-600 to Cys-602 and Cys-601 to Cys-606. Glycated in diabetic patients. Phosphorylation sites are present in the extracelllular medium. Acetylated on Lys-223 by acetylsalicylic acid.
Cellular localization	Secreted.
Form	There are 2 isoforms produced by alternative splicing.

Images



Western blot - Anti-Albumin antibody [EPR20195] (ab207327)

All lanes : Anti-Albumin antibody [EPR20195] (ab207327) at 1/2000 dilution

Lane 1 : Human liver lysate at 20 µg
Lane 2 : Mouse liver lysate at 20 µg
Lane 3 : Rat liver lysate at 20 µg
Lane 4 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate at 20 µg
Lane 5 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 10 µg

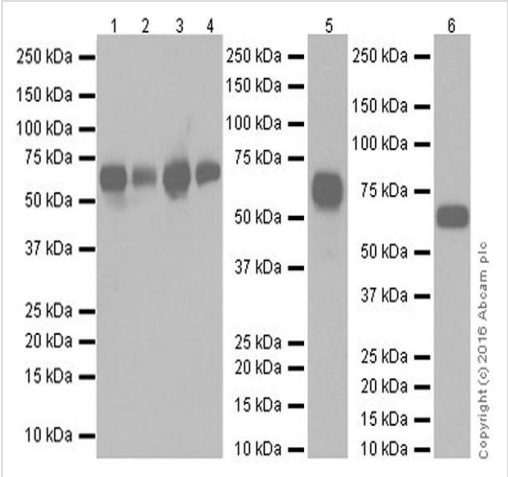
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 69 kDa
Observed band size: 69 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1-3: 5 seconds; Lane 4/5: 1 second.

Negative control: HeLa (PMID: 10476216 and 8314088).



Western blot - Anti-Albumin antibody [EPR20195] (ab207327)

Lanes 1-4 : Anti-Albumin antibody [EPR20195] (ab207327) at 1/10000 dilution
Lanes 5-6 : Anti-Albumin antibody [EPR20195] (ab207327) at 1/2000 dilution

Lane 1 : Human plasma at 2 µg
Lane 2 : Rat plasma at 2 µg
Lane 3 : Mouse plasma at 2 µg
Lane 4 : Human serum at 2 µg
Lane 5 : Human fetal kidney lysate at 10 µg
Lane 6 : Human fetal spleen lysate at 10 µg

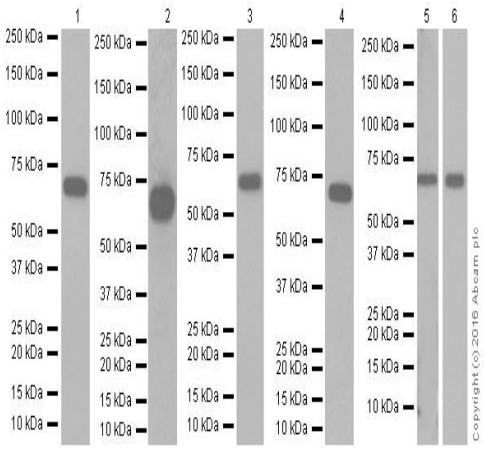
Secondary
Lanes 1-4 : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution
Lanes 5-6 : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific

to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 69 kDa
Observed band size: 69 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Albumin antibody [EPR20195] (ab207327)

All lanes : Anti-Albumin antibody [EPR20195] (ab207327) at 1/2000 dilution

Lane 1 : Mouse spleen lysate
Lane 2 : Mouse kidney lysate
Lane 3 : Rat spleen lysate
Lane 4 : Rat kidney lysate
Lane 5 : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate
Lane 6 : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

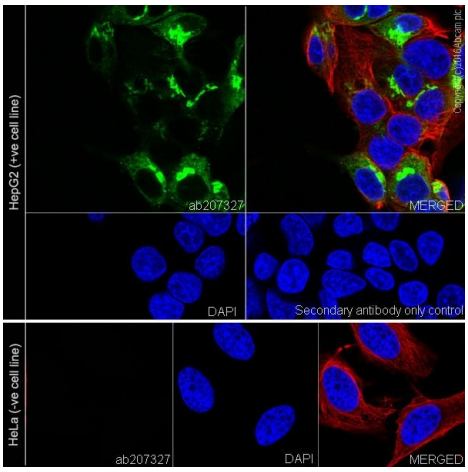
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 69 kDa
Observed band size: 69 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1-4: 1 second; Lane 5: 3 minutes; Lane 6: 5 seconds.



Immunocytochemistry/ Immunofluorescence - Anti-Albumin antibody [EPR20195] (ab207327)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (Human liver hepatocellular carcinoma cell line) or HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling Albumin with ab207327 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

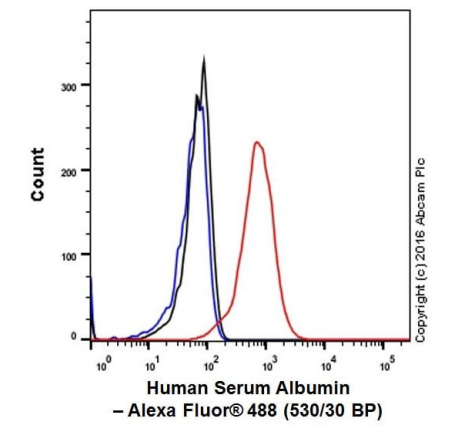
Confocal image showing cytoplasmic staining on HepG2 cell line.

Negative control: HeLa (PMID: 10476216 and 8314088)).

The nuclear counterstain is DAPI (blue).

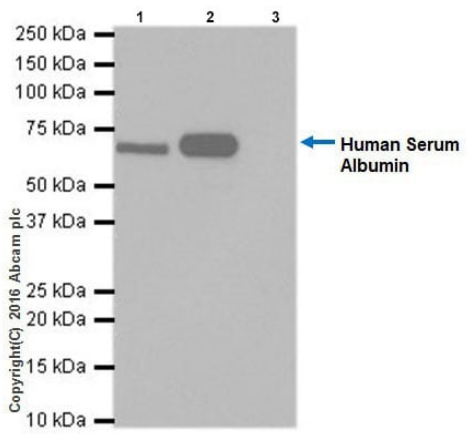
Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Albumin antibody [EPR20195] (ab207327)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed permeabilized HepG2 (Human liver hepatocellular carcinoma cell line) cells labeling Albuminwith ab207327 at 1/500 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluorr® 488) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Albumin antibody [EPR20195] (ab207327)

Albumin was immunoprecipitated from 0.35 mg of HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate with ab207327 at 1/40 dilution.

Western blot was performed from the immunoprecipitate using ab207327 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

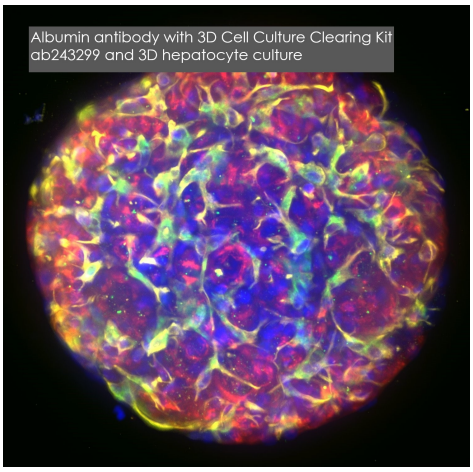
Lane 1: HepG2 whole cell lysate, 10µg (Input).

Lane 2: ab207327 IP in HepG2 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab207327 in HepG2 whole cell lysate.

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

Exposure time: 30 seconds.

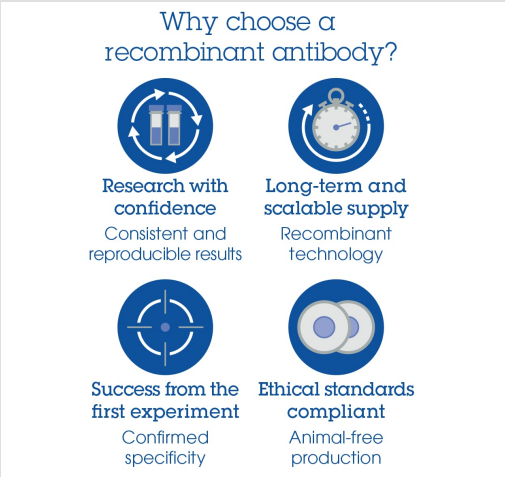


Immunocytochemistry/ Immunofluorescence - Anti-Albumin antibody [EPR20195] (ab207327)

Albumin antibody ab207327 was used with 3D Cell Culture Clearing Kit **ab243299** to penetrate, stain and clear a 3D hepatocyte cell culture.

Blue: DAPI, Green: CD68, Yellow: Albumin, Red: Vimentin

Learn more about **3D cell culture and tissue clearing kits, reagents, and protocols** designed to make it easier to stain 3D cell cultures and thick tissue sections and get more data from each valuable tissue section.



Anti-Albumin antibody [EPR20195] (ab207327)

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