

Anti-Albumin Antibody [PSH24-72]

HA724468



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IHC-P, IF-Tissue, FC(Intra)
Molecular Wt:	Predicted band size: 69 kDa
Clone number:	PSH24-72

Description: Serum albumin (ALB), the main protein in plasma, has a very good binding capacity for water, fatty acids, calcium, sodium, bilirubin, hormones, potassium and drugs. The primary function of ALB is to regulate the colloidal osmotic pressure of blood. Albumin is synthesized in the liver as preproalbumin, which has an N-terminal peptide that is removed before the nascent protein is released from the rough endoplasmic reticulum. The product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted form of albumin. Mutations in the ALB gene may result in familial dysalbuminemic hyperthyroxinemia (FDH), a form of euthyroid hyperthyroxinemia that is due to increased affinity of ALB for T4. FDH is the most common cause of inherited euthyroid hyperthyroxinemia in Caucasian populations.

Immunogen: Mouse Serum Albumin.

Positive control: Hep G2 (Human liver cancer cell) cell lysate, Mouse liver tissue lysate, Rat liver tissue lysate.

Subcellular location: Secreted.

Database links: SwissProt: P02768 Human | P07724 Mouse | P02770 Rat

Recommended Dilutions:

WB	1:100,000
IF-Cell	1:100
IHC-P	1:200
IF-Tissue	1:50
FC(Intra)	1:200

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

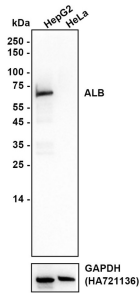
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Images

Fig1: Western blot analysis of Albumin on different lysates with Rabbit anti-Albumin antibody (HA724468) at 1/100,000 dilution.

Lane 1: Hep G2 (Human liver cancer cell) cell lysate

Lane 2: HeLa (Human cervical adenocarcinoma cell) cell lysate



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Lysates/proteins at 15 µg/Lane.

Exposure time: 10 seconds; ECL: K1801

Negative expression of Albumin protein in HeLa cell is consistent with the predicted expression pattern.

Blocking: 5% NFDN/TBST, 1 hour at room temperature

Primary antibody: HA724468, 1/100,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDN/TBST, 1 hour at room temperature

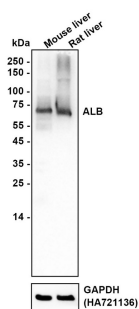
Predicted band size: 69 kDa

Observed band size: 69 kDa

Fig2: Western blot analysis of Albumin on different lysates with Rabbit anti-Albumin antibody (HA724468) at 1/100,000 dilution.

Lane 1: Mouse liver tissue lysate

Lane 2: Rat liver tissue lysate



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Lysates/proteins at 30 µg/Lane.

Exposure time: 10 seconds; ECL: K1801

Blocking: 5% NFDN/TBST, 1 hour at room temperature

Primary antibody: HA724468, 1/100,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDN/TBST, 1 hour at room temperature

Predicted band size: 69 kDa

Observed band size: 69 kDa

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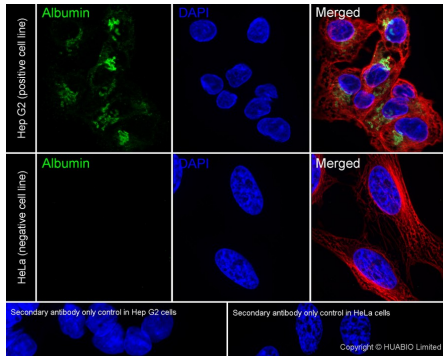
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Fig3: Application: Immunocytochemistry (IF-cell)

Species: Human

Sample: Hep G2 (Human liver cancer cell)/HeLa (Human cervical adenocarcinoma cell)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
 Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724468, 1/100, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

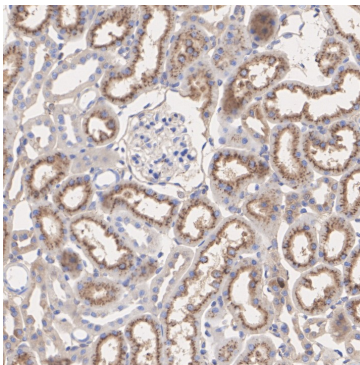
Negative expression of Albumin protein in HeLa cell is consistent with the predicted expression pattern.

Fig4: Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Kidney

Sample: Paraffin-embedded section



Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724468, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

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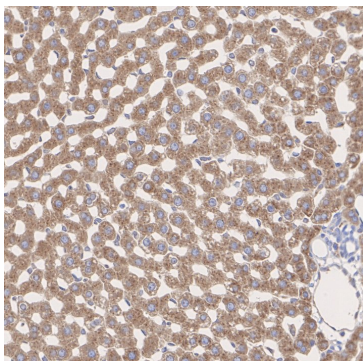


Fig5: Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Liver

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724468, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

Fig6: Application: Immunofluorescence (IF-tissue)

Species: Mouse

Tissue: Liver

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Blocking: 10% normal goat serum + 1% Triton X-100 + 0.3 M Glycine in TBST, 30 minutes at room temperature.

Primary antibody: HA724468, 1/50, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 1.5 hours at room temperature.

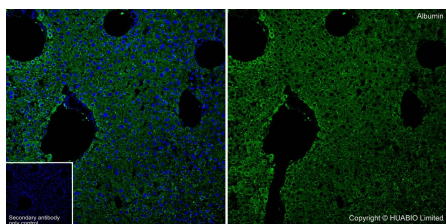


Fig7: Application: Flow Cytometry (Intra)

Species: Human

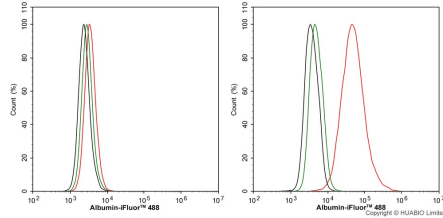
Sample: Hep G2 (Human liver cancer cells)/HeLa (Human cervix adenocarcinoma epithelial cell)

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 1x Permeabilization Buffer (eBioscience), 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 15 minutes at room temperature.

Antibody dilution buffer: 1x PBS.



Primary antibody: HA724468(1/200, Red) compared with Rabbit IgG Isotype Control (HA722127, Green), 15 minutes at room temperature.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 15 minutes at room temperature.

Negative expression of Albumin protein in HeLa cell is consistent with the predicted expression pattern.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Qu N et al. Albumin Nanoparticle-Based Drug Delivery Systems. *Int J Nanomedicine*. 2024 Jul
2. Spada A et al. The Uniqueness of Albumin as a Carrier in Nanodrug Delivery. *Mol Pharm*. 2021 May

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