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www.rockland.com
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Datasheet for 200-901-Y01

Human Serum Albumin Antibody

Overview

Description:	Anti-Albumin (CHICKEN) Antibody - 200-901-Y01
Item No.:	200-901-Y01
Size:	100 µg
Applications:	ELISA, IF, IHC, WB, Other
Reactivity:	Human, Mouse, Rat
Host Species:	Chicken

Product Details

Background:	Albumin is a soluble, monomeric protein which comprises about one-half of the blood serum protein. It functions primarily as a carrier protein for steroids, fatty acids, and thyroid hormones and plays a role in stabilizing extracellular fluid volume. 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 resulting product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted albumin. At least two isoforms of Albumin are known to exist.
Synonyms:	Albumin Antibody, PRO0883, PRO0903, PRO1341, Serum albumin
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	ALB
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Albumin antibody was prepared from chicken egg fractions produced by repeated immunizations with a 13 amino acid synthetic peptide near the internal region of human Albumin.

Purity/Specificity:	Anti-Albumin Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with Albumin from other sources has not been determined.
Relevant Links:	• UniProtKB - P02768 • GeneID - 213 • NCBI - NP_000468.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Suggested Applications:	Other (Based on references)
Application Note:	Anti-Albumin Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 69 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1 - 2 µg/mL

Formulation

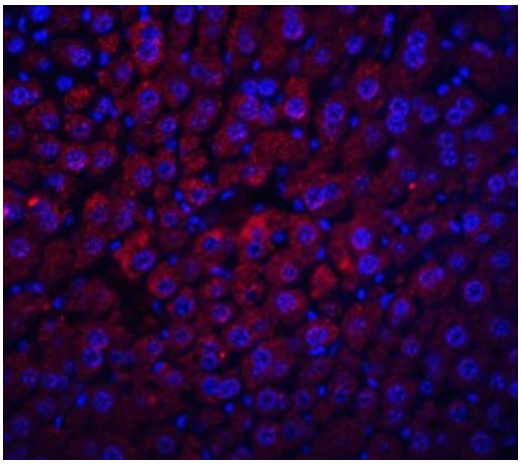
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

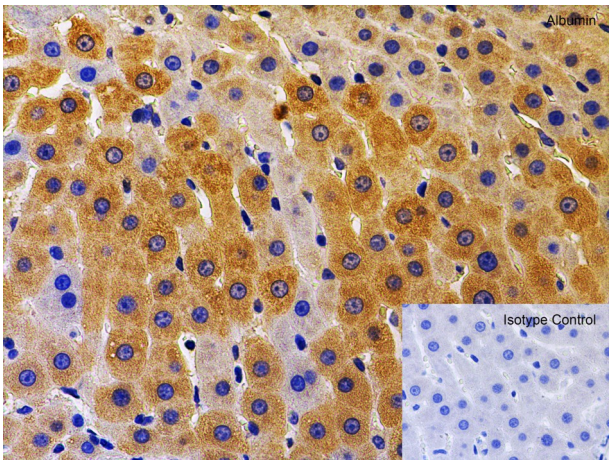
Shipping Condition:	Wet Ice

Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

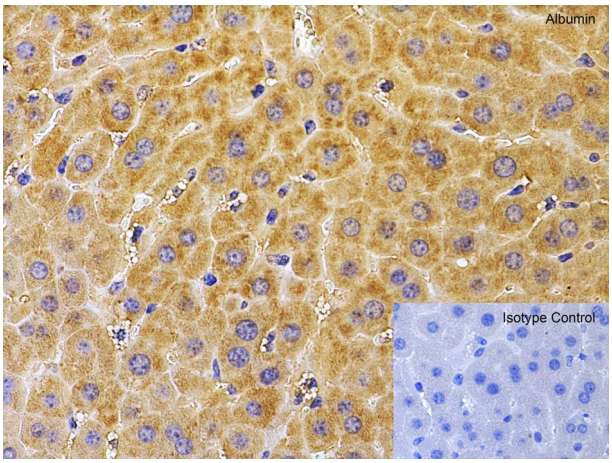
Images



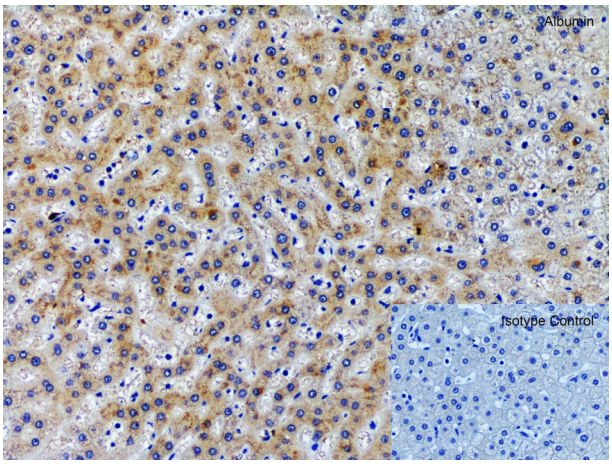
Immunofluorescence Microscopy
Immunofluorescence Validation of Albumin.
Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse liver tissue labeling albumin at 20 /mL, followed by goat anti-chicken IgY secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



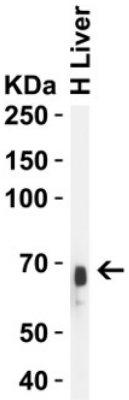
Immunohistochemistry
Immunohistochemistry Validation of Albumin.
Immunohistochemical analysis of paraffin-embedded rat liver tissue using anti-albumin antibody at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 °C. A goat anti-chicken IgY (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



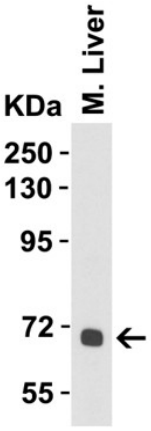
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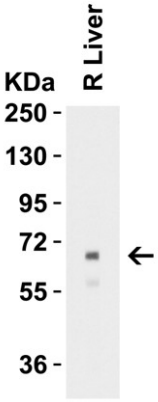
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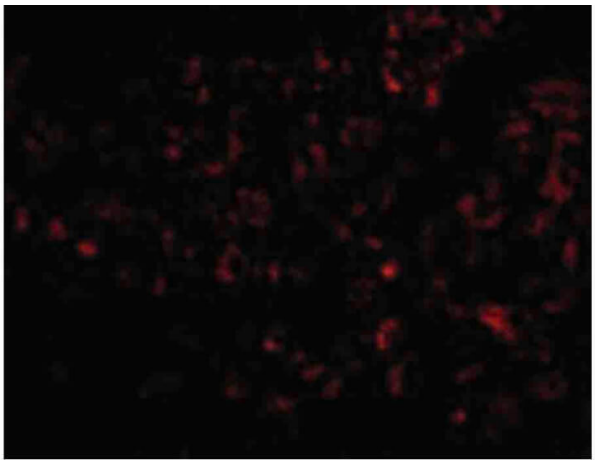
Western Blot
Western Blot Validation using Albumin. Loading: 10 µg of human liver lysates per lane. Antibodies: Albumin, 1 µg/mL, 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-chicken IgY HRP conjugate at 1:10000 dilution.



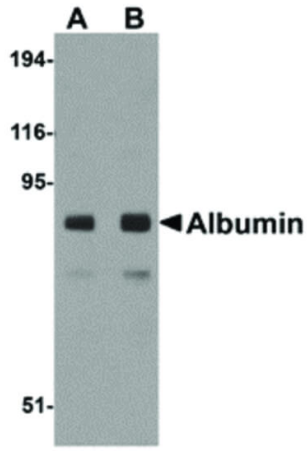
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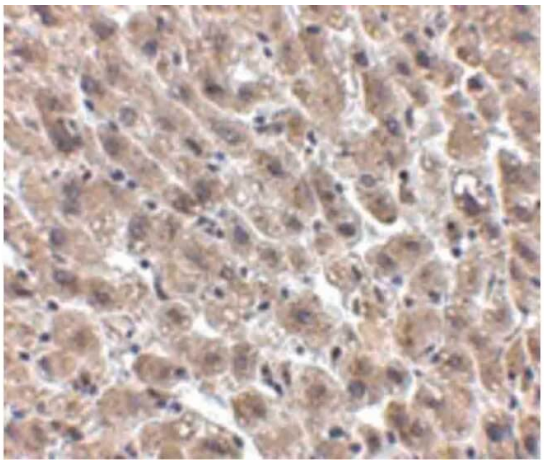
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Immunofluorescence Microscopy
Immunofluorescence Microscopy of Albumin antibody. Tissue: Human liver tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Albumin antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: Albumin is secreted into extracellular regions. Staining: Albumin as red fluorescent signal.



Western Blot
Western Blot of Albumin antibody. Lane 1: Mouse liver tissue lysate with Albumin antibody at 1 µg/mL. Lane 2: Mouse liver tissue lysate with Albumin antibody at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 69 kDa, 80 kDa for Albumin. Other band(s): Albumin splice variants and isoforms.



Immunohistochemistry
Immunohistochemistry of Albumin antibody. Tissue: Human liver tissue Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Albumin antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: Albumin is secreted into extracellular regions. Staining: Albumin as precipitated brown signal with hematoxylin purple nuclear counterstain.

References

- Haas MJ et al. High-Throughput Analysis Identifying Drugs That Regulate Apolipoprotein A-I Synthesis. *Assay Drug Dev Technol.* (2017)

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