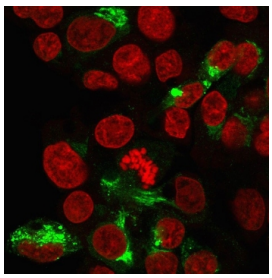
Albumin Antibody for IF / Cytoplasmic Serum Protein Localization Antibody [clone ALB/2356] (V7528)

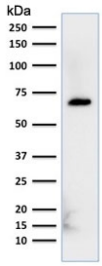
Catalog No.	Formulation	Size
V7528-100UG	0.2 mg/ml in 1X PBS with 0.05% sodium azide	100 ug
V7528-20UG	0.2 mg/ml in 1X PBS with 0.05% sodium azide	20 ug
V7528SAF-100UG	1 mg/ml in 1X PBS; sodium azide free	100 ug

Bulk quote request

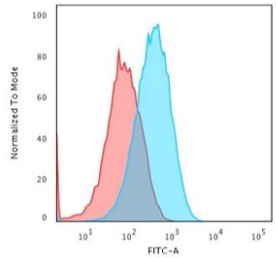
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	ALB/2356
Purity	Protein G affinity chromatography
UniProt	P02768
Localization	Cell surface, Cytoplasmic
Applications	ELISA (order BSA/sodium azide-free format for coating) Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 2-4ug/ml Western blot: 1-2ug/ml
Limitations	This Albumin Antibody for IF / Cytoplasmic Serum Protein Localization Antibody is available for research use only.



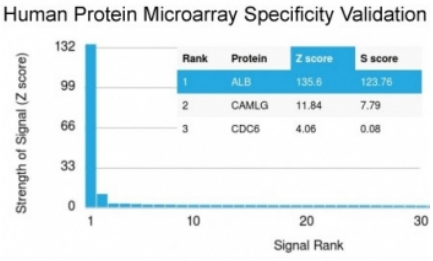
Albumin Antibody HepG2 IF. Immunofluorescence analysis of paraformaldehyde-fixed human HepG2 cells using Albumin antibody (green) shows cytoplasmic staining with a punctate, perinuclear distribution consistent with localization within the secretory pathway, including endoplasmic reticulum and Golgi-associated compartments, while nuclei are counterstained with Reddot (red); detection was performed with clone ALB/2356.



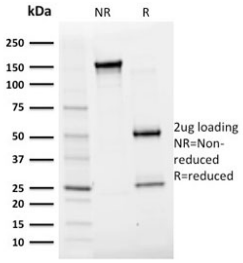
Western blot testing of human HepG2 cell lysate with Albumin antibody (clone ALB/2356). Predicted molecular weigth ~66 kDa.



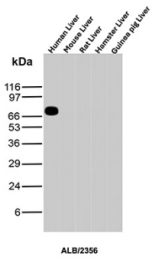
Albumin Antibody HepG2 FACS. Flow cytometry analysis of paraformaldehyde-fixed human HepG2 cells using Albumin antibody shows a clear rightward shift in fluorescence intensity compared to the isotype control, consistent with intracellular detection of ALB and supporting cytoplasmic localization of this liver-derived serum protein; blue histogram represents Albumin antibody staining and red histogram represents isotype control, with detection performed using clone ALB/2356.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Albumin antibody (clone ALB/2356). These results demonstrate the foremost specificity of the ALB/2356 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Albumin antibody (clone ALB/2356) as confirmation of integrity and purity.



Albumin Antibody Liver Species Comparison WB. Western blot analysis of human, mouse, rat, hamster, and guinea pig liver tissue lysates using Albumin antibody detects a prominent band at approximately 65-70 kDa in human liver, consistent with the predicted molecular weight of Albumin (ALB), with minimal signal observed in other species under these conditions; detection was performed with clone ALB/2356.

Description

Albumin (ALB) is the most abundant protein in human plasma and is synthesized primarily by hepatocytes in the liver. It plays essential roles in maintaining oncotic pressure, transporting hormones and metabolites, and regulating fluid balance within the circulatory system. Albumin is produced within the endoplasmic reticulum and processed through the secretory pathway before being released into the bloodstream, making it a key model protein for studying intracellular trafficking and secretion in hepatocyte-derived cells.

Albumin antibody, also referred to as ALB antibody and serum albumin antibody in the literature, recognizes a highly abundant protein that is localized within the cytoplasm and secretory compartments prior to secretion. In immunofluorescence analysis, Albumin is typically observed as cytoplasmic staining with a distribution consistent with endoplasmic reticulum and Golgi-associated processing, reflecting its role as a secreted serum protein. This intracellular localization provides a useful readout for examining protein synthesis, trafficking, and secretion dynamics. This antibody is part of a collection of Human Protein Microarray validated antibodies that have been screened for specificity across thousands of proteins.

This Albumin Antibody for IF / Cytoplasmic Serum Protein Localization Antibody (clone ALB/2356) is uniquely positioned for visualization of Albumin distribution at the cellular level. In fixed and permeabilized cells, Albumin detection highlights cytoplasmic compartments associated with protein synthesis and secretion, enabling detailed imaging of intracellular localization patterns. This makes Albumin a valuable marker for studies of hepatocyte function, secretory pathway organization, and protein transport mechanisms.

In addition to immunofluorescence, Albumin expression can be confirmed in complementary assays such as western blot and flow cytometry, where it is detected as a prominent protein corresponding to its expected molecular weight or as an intracellular antigen following permeabilization. Microarray validation of clone ALB/2356 supports its specificity for Albumin, providing confidence in target recognition across a broad range of proteins and reinforcing its suitability for imaging-based applications.

Clone ALB/2356 is a mouse monoclonal antibody designed to detect Albumin with consistent performance in research applications. An Albumin antibody is suitable for visualizing ALB expression and intracellular localization in studies of hepatocyte biology, protein secretion, and serum protein dynamics using immunofluorescence-based approaches.

This antibody is part of a broader antibody panel offered by NSJ Bioreagents.

Application Notes

The optimal dilution of the Albumin Antibody for IF / Cytoplasmic Serum Protein Localization Antibody for each application should be determined by the researcher.

Immunogen

Recombinant human protein was used as the immunogen for this Albumin antibody.

Storage

Store the Albumin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Albumin antibody, ALB antibody, Serum albumin antibody, Human serum albumin antibody, HSA antibody

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