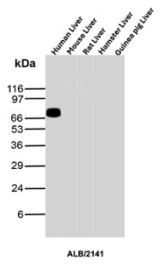
Albumin Antibody / Liver Function and Serum Protein Marker Antibody [clone ALB/2141] (V7553)

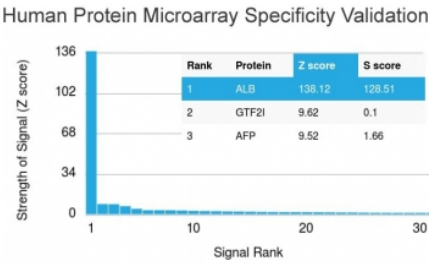
Catalog No.	Formulation	Size
V7553-100UG	0.2 mg/ml in 1X PBS with 0.05% sodium azide	100 ug
V7553-20UG	0.2 mg/ml in 1X PBS with 0.05% sodium azide	20 ug
V7553SAF-100UG	1 mg/ml in 1X PBS; sodium azide free	100 ug
V7553IHC-7ML	Prediluted in 1X PBS with 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

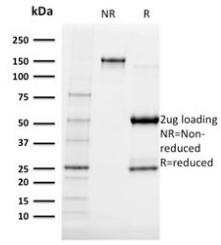
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ALB/2141
Purity	Protein G affinity chromatography
UniProt	P02768
Localization	Cell surface, Cytoplasmic
Applications	ELISA (order BSA/sodium Azide-free Format For Coating) : Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Albumin Antibody / Liver Function and Serum Protein Marker Antibody is available for research use only.



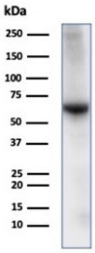
Albumin Antibody Human Dominant Signal WB. Western blot analysis of human, mouse, rat, hamster, and guinea pig liver tissue lysates using Albumin antibody detects a prominent band at approximately 65-70 kDa in human liver, consistent with the predicted molecular weight of Albumin (ALB), with minimal signal observed in other species under these conditions; detection was performed with clone ALB/2141.



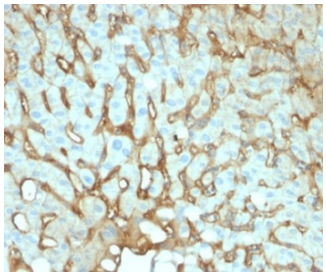
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using human Albumin antibody (clone ALB/2141). These results demonstrate the foremost specificity of the ALB/2141 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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/2141) as confirmation of integrity and purity.



Albumin Antibody Human Liver WB. Western blot analysis of human liver tissue lysate using Albumin antibody detects a strong band at approximately 65-70 kDa, consistent with the predicted molecular weight of Albumin (ALB), a major liver-derived serum protein and marker of hepatocyte function; detection was performed with clone ALB/2141.



Albumin Antibody Hepatocellular Carcinoma IHC. Immunohistochemistry of FFPE human hepatocellular carcinoma tissue using Albumin antibody shows strong HRP-DAB brown cytoplasmic staining in tumor hepatocytes, consistent with Albumin expression in hepatocyte-derived liver tissue, while surrounding stromal cells display minimal background; detection was performed with clone ALB/2141. HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10â€“20 min followed by cooling at room temperature for 20 min.

Description

Albumin (ALB) is the most abundant circulating protein in human plasma and is synthesized primarily by hepatocytes in the liver. It plays a central role in maintaining oncotic pressure, transporting endogenous and exogenous molecules, and regulating fluid balance within the circulatory system. Albumin is widely used as a marker of liver function and hepatocyte activity due to its high expression in liver tissue and secretion into the bloodstream. As a major serum protein, ALB reflects the biosynthetic capacity of hepatocytes and overall liver health.

Albumin antibody, also referred to as ALB antibody and serum albumin antibody in the literature, recognizes a highly abundant protein localized predominantly in the cytoplasm of hepatocytes and secreted into extracellular compartments. In tissue-based analysis, Albumin is characteristically observed as strong cytoplasmic staining in hepatocytes, providing clear identification of liver parenchymal cells. This staining pattern supports its use as a hepatocyte lineage marker in histological studies and tissue characterization. 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 / Liver Function and Serum Protein Marker Antibody (clone ALB/2141) is uniquely positioned for studies of liver biology and hepatocyte-associated processes. In hepatocellular carcinoma and other liver-derived tissues, Albumin expression is retained in tumor hepatocytes, allowing distinction between hepatocyte-derived tumor cells and non-hepatic components within the tissue microenvironment. This makes Albumin a valuable marker for identifying hepatic origin and assessing cellular differentiation in liver tissue samples.

In western blot analysis, Albumin is typically detected as a prominent band corresponding to its expected molecular weight, particularly in liver tissue lysates where expression is highest. In immunohistochemistry, strong cytoplasmic staining highlights hepatocytes and hepatocyte-derived tumor cells, while surrounding stromal and non-hepatic tissues show minimal signal. These consistent expression patterns support reliable detection across multiple experimental approaches.

Microarray validation of clone ALB/2141 supports its specificity for Albumin, providing confidence in target recognition across a broad range of proteins. As a mouse monoclonal antibody, clone ALB/2141 offers reproducible performance for detecting Albumin in research applications. An Albumin antibody is suitable for detecting ALB expression in studies of liver function, hepatocyte biology, and serum protein dynamics.

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

Application Notes

The optimal dilution of the Albumin Antibody / Liver Function and Serum Protein Marker Antibody for each application should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Full length recombinant human protein was used as the immunogen for this human Albumin antibody.

Storage

Store the human 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