# Mouse anti-Human Albumin Monoclonal Antibody | anti-ALB antibody

Albumin (Transport Protein)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA214961** | **Mouse** | **Human** | **Immunohistochemistry, ELISA** |

## PRODUCT SYNONYMS

Albumin; Monoclonal Antibody; Albumin (Transport Protein); ALB; Albumin (32 AA); Albumin (AA 34;) Albumin; Cell growth inhibiting protein 42; Growth inhibiting protein 20; HAS; Serum albumin; anti-ALB antibody

## PRODUCT SPECIFICATIONS

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| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1, kappa |
| **Clone Number** | ALB/2142 |
| **Specificity** | This MAb is Monospecific to albumin and shows no significant cross-reaction with other human proteins. Albumin is a soluble, monomeric protein, which comprises about one half of the blood serum protein. Albumin 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 product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted form of albumin. |
| **Purity/Purification** | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml |
| **Form/Format** | 200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Sequence Length** | 609 |
| **Applicable Applications for anti-ALB antibody** | IHC (Immunohistochemistry), ELISA |
| **Positive Control** | Human serum. Liver or Hepatocellular Carcinoma. |
| **Immunogen** | Recombinant full-length human ALB protein |
| **Cellular Localization** | Cell Surface and Cytoplasmic |
| **Hu-chromosome Location** | 4q13.3 |
| **Preparation and Storage** | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required. |

## IMAGES

**Application Data**
Analysis of Protein Array containing more than 19,000 full-length human proteins using Albumin-Monospecific Mouse Monoclonal Antibody (ALB/2142). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.

**IHC (Immunohistochemistry)**
Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with Albumin-Monospecific Mouse Monoclonal Antibody (ALB/2142).

**SDS-PAGE**
SDS-PAGE Analysis Purified Albumin-Monospecific Mouse Monoclonal Antibody (ALB/2142). Confirmation of Integrity and Purity of Antibody.

## ADDITIONAL INFORMATION

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| **References** | Ruiz, M., et al. 1982. Familial dysalbuminemic hyperthyroxinemia: a syndrome that can be confused with thyrotoxicosis. N. Engl. J. Med. 306: 635-639. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 4502027 |
| **NCBI GeneID** | 213 |
| **NCBI Accession #** | NP_000468.1 |
| **NCBI GenBank Nucleotide #** | NP_000468.1 |
| **UniProt Accession #** | P02768 |
| **Molecular Weight** | 66kDa |
| **NCBI Official Full Name** | serum albumin preproprotein |
| **NCBI Official Synonym Full Names** | albumin |
| **NCBI Official Symbol** | ALB |
| **NCBI Official Synonym Symbols** | HSA; PRO0883; PRO0903; PRO1341 |
| **NCBI Protein Information** | serum albumin |
| **UniProt Protein Name** | Serum albumin |
| **UniProt Gene Name** | **ALB** |
| **UniProt Entry Name** | ALBU_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.