10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

human Albumin Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1220a

Specification

human Albumin Antibody - Product Information

Application	**WB, E**
Primary Accession	P02768
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**69kDa KDa**

Description
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 a globular unglycosylated serum protein of molecular weight 65,000. 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 albumin.

Immunogen
Human sera albumin.

Formulation
Ascitic fluid containing 0.03% sodium azide.

human Albumin Antibody - Additional Information

Gene ID 213

Other Names
Serum albumin, ALB

Dilution
WB~~1/500 - 1/2000
E~~N/A

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
human Albumin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

human Albumin Antibody - Protein Information

Name ALB

Function
Binds water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs (Probable). Its main function is the regulation of the colloidal osmotic pressure of blood (Probable). Major zinc transporter in plasma, typically binds about 80% of all plasma zinc (PubMed:19021548). Major calcium and magnesium transporter in plasma, binds approximately 45% of circulating calcium and magnesium in plasma (By similarity). Potentially has more than two calcium-binding sites and might additionally bind calcium in a non-specific manner (By similarity). The shared binding site between zinc and calcium at residue Asp-273 suggests a crosstalk between zinc and calcium transport in the blood (By similarity). The rank order of affinity is zinc > calcium > magnesium (By similarity). Binds to the bacterial siderophore enterobactin and inhibits enterobactin-mediated iron uptake of E.coli from ferric transferrin, and may thereby limit the utilization of iron and growth of enteric bacteria such as E.coli (PubMed:6234017). Does not prevent iron uptake by the bacterial siderophore aerobactin (PubMed:6234017).

Cellular Location
Secreted.

Tissue Location
Plasma.

human Albumin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

human Albumin Antibody - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

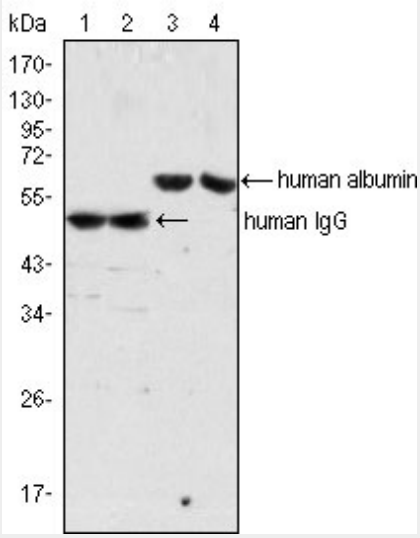

Figure 1: Western blot analysis using human Albumin mouse mAb (lane 3, 4) and human IgG mouse mAb(lane 1, 2) against human serum (lane 1, 3) and plasma (lane 2, 4).

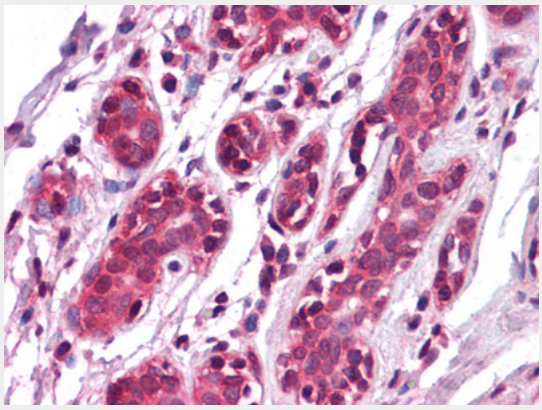

Figure 2: Immunohistochemical analysis of paraffin-embedded human Breast tissues using EPHA7 mouse mAb

human Albumin Antibody - References

1. Proteins. 2006 Aug 1;64(2):355-62. 2. FEBS Lett. 2007 Jul 10;581(17):3178-82.