

# human Albumin Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1220a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P02768</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	8F6F9; 2H3D1
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	69367
<b>Description</b>	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.
<b>Immunogen</b>	Human sera albumin.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	213
<b>Other Names</b>	Serum albumin, ALB
<b>Dilution</b>	WB~~1/500 - 1/2000 E~~N/A
<b>Storage</b>	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.
<b>Precautions</b>	human Albumin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ALB
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<b>Function</b>	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: <a href="#">19021548</a> ). 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: <a href="#">6234017</a> ). Does not prevent iron uptake by the bacterial siderophore aerobactin (PubMed: <a href="#">6234017</a> ).
<b>Cellular Location</b>	Secreted.
<b>Tissue Location</b>	Plasma.

## References

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

## Images

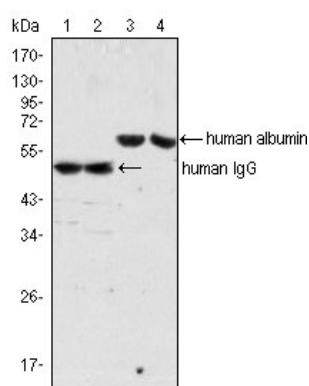


Figure 1: Western blot analysis using human Albumin mouse mAb (lane 3, 4) and human IgG mouse mAb(lane 1, 2) against human serum (lane 1, 3) and plasma (lane 2, 4).

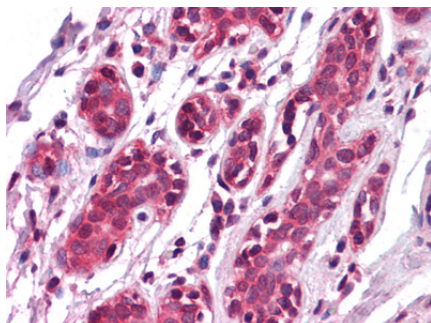


Figure 2: Immunohistochemical analysis of paraffin-embedded human Breast tissues using EPHA7 mouse mAb

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.