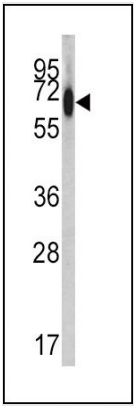
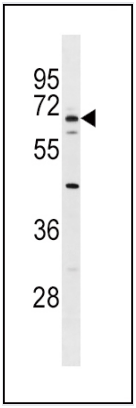
ALB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

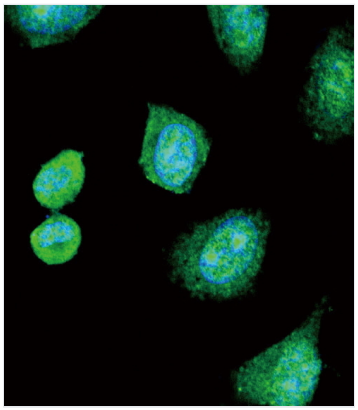
Product Name	ALB, Polyclonal Antibody
Full Product Name	ALB, CT (Serum Albumin, GIG20, GIG42, PRO0903, PRO1708, PRO2044, PRO2619, PRO2675, UNQ696/PRO1341, DKFZp779N1935, PRO0883, PRO1341) (HRP)
Product Gene Name	anti-ALB antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ALB. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates.
Molecular Weight	68kDa (597aa) 50-70kDa (SDS-PAGE under reducing conditions.)
OMIM	103600
3D Structure	ModBase 3D Structure for P02768
Immunogen	Synthetic peptide selected from the C-terminal region of human ALB (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-ALB antibody	Antibodies; Albumin
Applications Tested/Suitable for anti-ALB antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ALB antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ALB antibody	MBS6462197 is an antibody targeting ALB. Also known as ALB, CT (Serum Albumin, GIG20, GIG42, PRO0903, PRO1708, PRO2044, PRO2619, PRO2675, UNQ696/PRO1341, DKFZp779N1935, PRO0883, PRO1341) (HRP). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-ALB antibody	1. Liu, Z., Biophys. J. 96(10), 3917-3925 (2009). 2. Minchiotti, L., Hum. Mutat. 29(8), 1007-1016 (2008).
Other Notes	Small volumes of anti-ALB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



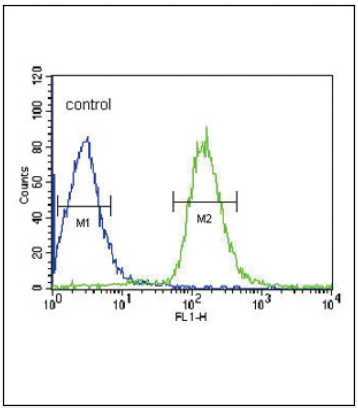
Western Blot (WB) of anti-ALB antibody
Western blot analysis of ALB antibody (C-term) in mouse liver tissue lysates (35ug/lane). ALB (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-ALB antibody
ALB Antibody (C-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the ALB antibody detected the ALB protein (arrow).



Immunofluorescence (IF) of anti-ALB antibody
Confocal immunofluorescent analysis of ALB Antibody (C-term) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Flow Cytometry (FC/FACS) of anti-ALB antibody
ALB Antibody (C-term) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALB. It may not necessarily be applicable to this product.

NCBI GI #	4502027
NCBI GeneID	213
NCBI Accession #	NP_000468
UniProt Primary Accession #	P02768
UniProt Secondary Accession #	O95574; P04277; Q13140; Q645G4; Q68DN5; Q6UXK4; Q86YG0; Q8IUK7; Q9P157; Q9P1I7; E7ESS9
UniProt Related Accession #	P02768
GenBank Nucleotide #	NM_000477.6
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
UniProt Protein Name	Serum albumin
Protein Family	Serum albumin
UniProt Gene Name	ALB

UniProt Entry Name	ALBU_HUMAN
NCBI Protein Information	serum albumin
NCBI Summary for ALB	This gene encodes the most abundant protein in human blood. This protein functions in the regulation of blood plasma colloid osmotic pressure and acts as a carrier protein for a wide range of endogenous molecules including hormones, fatty acids, and metabolites, as well as exogenous drugs. Additionally, this protein exhibits an esterase-like activity with broad substrate specificity. The encoded preproprotein is proteolytically processed to generate the mature protein. A peptide derived from this protein, EPI-X4, is an endogenous inhibitor of the CXCR4 chemokine receptor. [provided by RefSeq, Jul 2016]
UniProt Comments for ALB	albumin: Serum albumin, the main protein of plasma, has a good binding capacity for water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. Major zinc transporter in plasma, typically binds about 80% of all plasma zinc. Plasma. Belongs to the ALB/AFP/VDB family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Carrier; Secreted Chromosomal Location of Human Ortholog: 4q13.3 Cellular Component: extracellular space; protein complex; extracellular region; basement membrane; nucleus Molecular Function: antioxidant activity; toxin binding; protein binding; copper ion binding; enzyme binding; DNA binding; zinc ion binding; chaperone binding; drug binding; oxygen binding; fatty acid binding; pyridoxal phosphate binding Biological Process: platelet activation; receptor-mediated endocytosis; sodium-independent organic anion transport; bile acid metabolic process; maintenance of mitochondrion localization; lipoprotein metabolic process; hemolysis by symbiont of host red blood cells; cellular response to starvation; response to organic substance; response to mercury ion; bile acid and bile salt transport; retinal homeostasis; platelet degranulation; transport; negative regulation of programmed cell death; blood coagulation; transmembrane transport; positive regulation of circadian sleep/wake cycle, non-REM sleep; response to nutrient; negative regulation of apoptosis Disease: Analbuminemia; Hyperthyroxinemia, Familial Dysalbuminemic
Research Articles on ALB	**1.** these peptides are identified as fragments of albumin. The isolated fragments activate MRGPRX2 and degranulate MRGPRX2 expressing LAD 2 cells in dose-dependent manner. The isolated basic peptides generated from human albumin are able to degranulate mast cells via the MRGPRX2.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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