For Research Use Only

# Albumin Monoclonal antibody, PBS Only (Detector)

Catalog Number:66051-1-PBS

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## Basic Information

Catalog Number:
66051-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG9885

GenBank Accession Number:
BC034023

GeneID (NCBI):
213

UNIPROT ID:
P02768

Full Name:
albumin

Calculated MW:
609 aa, 69 kDa

Observed MW:
66 kDa

Purification Method:
Protein G purification

CloneNo.:
4A1C11

## Applications

Tested Applications:
WB, IHC, IF/ICC, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human, rat, pig

## Product Information

66051-1-PBS targets Albumin as part of a matched antibody pair:

MP50031-1: 66051-2-PBS capture and 66051-1-PBS detection (validated in Sandwich ELISA)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

## Background Information

Albumin is the most abundant protein in blood plasma. Alterations of level of serum albumin are linked to variety of diseases. Albumin is expressed exclusively by well-differentiated hepatocytes, thus anti-albumin has been used to mark hepatocytes. (21388516, 23832071) In additon, glycated serum albumin is also a potential diabetes biomarker.

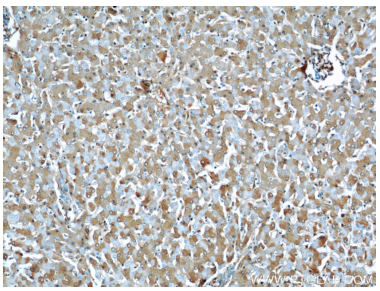
## Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

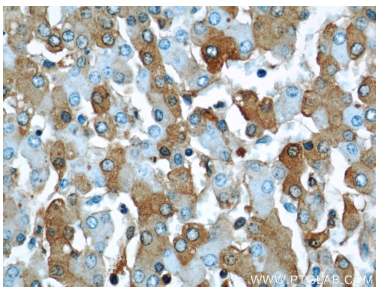
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

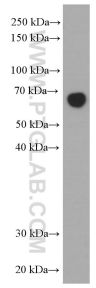
## Selected Validation Data



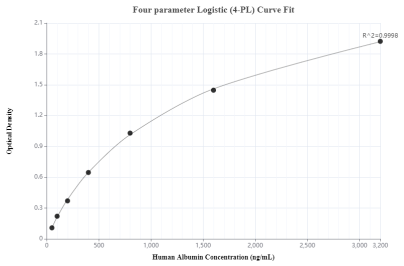
Immunohistochemical analysis of paraffin-embedded human liver using 66051-1-Ig(ALB antibody) at dilution of 1:50 (under 10x lens). This data was developed using the same antibody clone with 66051-1-PBS in a different storage buffer formulation.



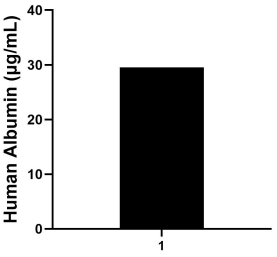
Immunohistochemical analysis of paraffin-embedded human liver using 66051-1-Ig(ALB antibody) at dilution of 1:50 (under 40x lens). This data was developed using the same antibody clone with 66051-1-PBS in a different storage buffer formulation.



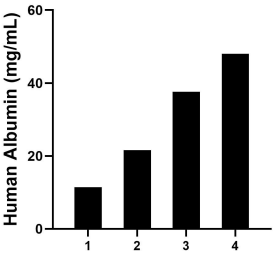

human plasma (diluted 5000 fold) was subjected to SDS PAGE followed by western blot with 66051-1-Ig (Albumin Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66051-1-PBS in a different storage buffer formulation.



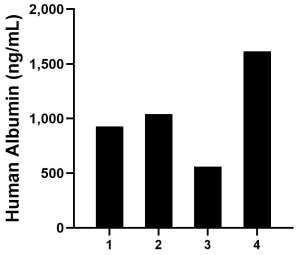

Sandwich ELISA standard curve of MP50031-1, Albumin Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66051-2-PBS. Detection antibody: 66051-1-PBS. Standard: Ag9885. Range: 50-3200 ng/mL.



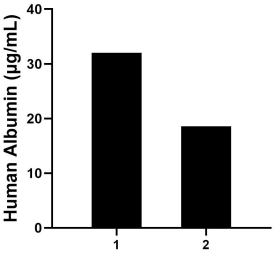

Human cerebrospinal fluid (CSF) of one individual human donors was measured. The Albumin concentration of detected samples was determined to be 29.50 µg/mL.



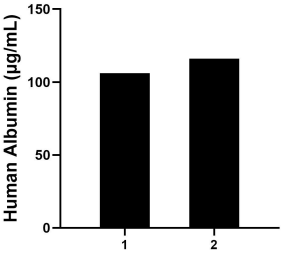

Serum of four individual healthy human donors was measured. The Albumin concentration of detected samples was determined to be 29.65 mg/mL with a range of 11.40-48.00 mg/mL.



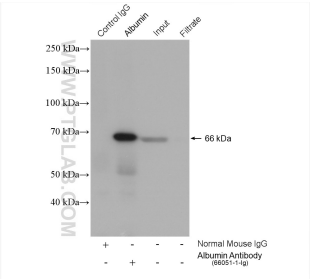

Urine of four individual healthy human donors was measured. The Albumin concentration of detected samples was determined to be 1,036.00 ng/mL with a range of 560.00-1,616.00 ng/mL.

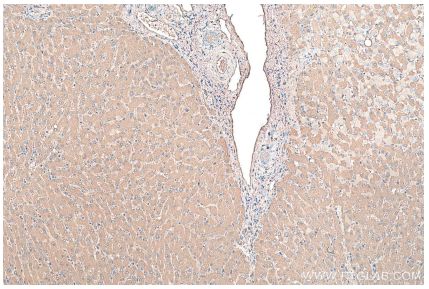


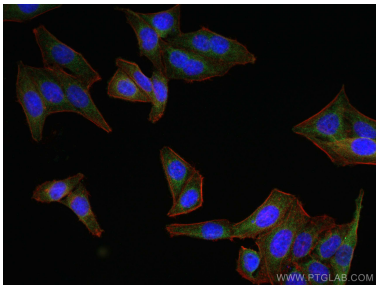

Saliva of two individual healthy human donors was measured. The Albumin concentrations of detected samples were determined to be 32.00 µg/mL and 18.60 µg/mL, respectively.



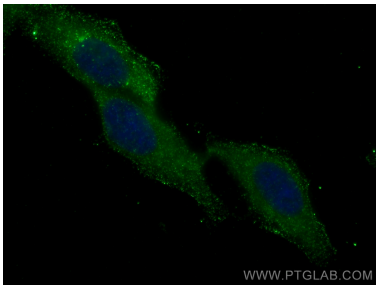

Human milk of two individual healthy human donors was measured. The Albumin concentrations of detected samples were determined to be 106.00 µg/mL and 116.00 µg/mL, respectively.



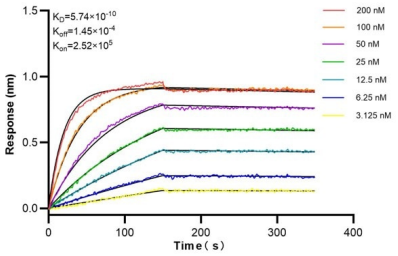


IP result of anti-Albumin (IP:66051-1-Ig, 4ug; Detection:66051-1-Ig 1:1000) with HepG2 cells lysate 1720 ug. This data was developed using the same antibody clone with 66051-1-PBS in a different storage buffer formulation.




Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using Albumin antibody (66051-1-Ig, Clone: 4A1C11 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66051-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66051-1-Ig (Albumin antibody) at dilution of 1:64000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66051-1-PBS in a different storage buffer formulation.




Biolayer interferometry (BLI) kinetic assays of 66051-1-Ig against Human Albumin were performed. The affinity constant is 0.574 nM

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Albumin antibody (66051-1-Ig, Clone: 4A1C11 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 66051-1-PBS in a different storage buffer formulation.