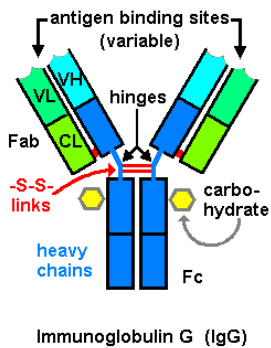


Product Specification Sheet

Human Serum Albumin Antibodies

- | | | |
|---|--|---------------------|
| <input type="checkbox"/> Cat. # ALBH13-A | Goat Anti-Human serum albumin IgG, aff pure | SIZE: 100 ug |
| <input type="checkbox"/> Cat. # ALBH13-C | Purified Human serum albumin protein control for Western | SIZE: 100 ul |
| <input type="checkbox"/> Cat. # ALBH13-FITC | Goat Anti-Human serum albumin IgG-FITC conjugate | SIZE: 100 ug |



Immunoglobulin G (IgG) is a type of antibody. It is a protein complex composed of four peptide chains—two identical heavy chains and two identical light chains arranged in a Y-shape typical of antibody monomers. IgG has molecular weight of approximately 150 kDa, heavy or H chain approximately 50 kDa and light or L chain 25 kDa. Each IgG has two antigen binding sites. Representing approximately 75% of serum antibodies in humans, IgG is the most common type of antibody found in the circulation.

Albumin is the protein of the highest concentration in serum or plasma. Albumin transports many small molecules in the blood (for example, bilirubin, calcium, progesterone, and drugs). It is also of prime importance in maintaining the osmotic pressure of the blood. Albumin is synthesized by the liver. Albumin performs many functions including maintaining the "osmotic pressure" that causes fluid to remain within the blood stream instead of leaking out into the tissues. Liver disease, kidney disease, and malnutrition are the major causes of low albumin. A diseased liver produces insufficient albumin. Diseased kidneys sometimes lose large amounts of albumin into the urine faster than the liver can produce it (this is termed nephrotic syndrome). Plasma albumin concentration is an important indicator of nutritional status, and low concentrations pre-surgery increase the risk of post-operative wound dehiscence, seroma formation and infection. Albumin levels are also dependant on the state of hydration of the body.

Source of Antigen and Antibodies

Antigen	Purified Human serum albumin
Ab Host/type	Goat, polyclonal antibody affinity purified over the antigen column (cat #ALBH13-A)
2-ab	Anti-Goat IgG-HRP cat # 30220 (AP, biotin, FITC conjugates also available)
Non immune IgG -ve control	Non-immune goat IgG to be used as -ve control for ELISA or Western (cat # 20009-1)

Anti-Human albumin IgG was coupled to Human ALBH13-C protein for Western blot +ve control (Cat # ALBH13-C) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of ALBH13-C for good visibility with antibody Cat # ALBH13-S. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should re-dissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the ALBH13-C solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. This preparation is intended for qualitative purpose and not to serve as

standard of known concentration. Do not freeze, thaw, or heat repeatedly.

Anti-Human albumin IgG was coupled to FITC at 1:1 ratio (Protein:FITC). The conjugate (Cat # ALBH13-FITC) is supplied in PBS, pH 7.4, 0.2% BSA, 0.05% azide at 0.5 mg/ml in liquid or powder. Reconstitute powder in 100 ul PBS. Store at -20oC or below.

Form & Storage

Affinity pure IgG

- 100 ul/vial
 - 50 ul/vial
 - solution
 - lyophilized powder
- supplied in PBS, pH 7.4, 0.05% sodium azide

Reconstitute powder in PBS at 1 mg/ml

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting 1-5 ug/ml using Chemiluminescence technique).

ELISA (0.1-1 ug/ml; using 50-100 ng of control peptide/well).

Histochemistry & Immunofluorescence: We recommend the use of 1:50 to 1:500 using formalin-fixed paraffin embedded tissues or 4% paraformaldehyde fixed frozen sections.

Specificity & Cross-reactivity

Anti-Human albumin cross reactivity was tested in ELISA with the following animal Albumins: Rat (24%) and hamster (17%). Monkey, guinea pig, goat, rabbit, chicken, sheep, pig, and bovine serum albumin, showed less than 1% reactivity. Other species not tested.

*This product is for In vitro research use only.

Related material available from ADI

Catalog#	ProdDescription
ALBH13-A	Anti-Human albumin IgG aff pure
ALBH13-C	Purified Human serum albumin protein control for Western blot
ALBH13-FITC	Anti-Human albumin IgG-FITC Conjugate
ALBH14-M	Monoclonal Anti-Human serum albumin (HSA) IgG1, ascites
ALBH16-R-10	Recombinant (yeast) purified human serum albumin (rHSA)
ALBH16-R-100	Recombinant (yeast) purified human serum albumin (rHSA)
ALBH17-A	Anti-Human+Mouse Albumin IgG/Y

ALBH13-A-C-FITC

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India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com