

Product Specification Sheet

Bovine Serum Albumin Antibodies

<input type="checkbox"/> Cat. # ALBB14-A	Rabbit Anti-Bovine serum albumin IgG, aff pure, unlabeled	SIZE: 1 mg
<input type="checkbox"/> Cat. # ALBB14-FITC	Rabbit Anti-Bovine serum albumin IgG-FITC conjugate	SIZE: 0.5 ml
<input type="checkbox"/> Cat. # ALBB14-BTN	Rabbit Anti-Bovine serum albumin IgG-Biotin conjugate	SIZE: 0.5 ml
<input type="checkbox"/> Cat. # ALBB14-HRP	Rabbit Anti-Bovine serum albumin IgG-HRP conjugate	SIZE: 0.5 ml

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. A person that is dehydrated will have an artificially low albumin level. This returns to normal when the dehydration is corrected. Albumin fluctuates so widely because it is very sensitive to changes in hydration of the body.

Source of Antigen and Antibodies

Antigen	Purified Bovine serum albumin (BSA) antigen grade
Ab Host/type	Rabbit, polyclonal antibody affinity purified over the antigen column (cat #ALBB14-A)
2-ab	Anti-Rabbit IgG-HRP cat # 30220 (AP, biotin, FITC conjugates also available)
Non immune IgG -ve control	Non-immune Rabbit IgG to be used as -ve control for ELISA or Western (cat # 20009-1)

Cat# ALBB14-A, unlabeled

Purified anti-Bovine albumin IgG is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (1 mg) or **liquid** form (1 mg/ml). Reconstitute powder in PBS in 1 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1000-1:10,000 for ELISA or Western.

Cat# ALBB14-FITC, FITC-conjugate

Purified anti-Bovine albumin IgG was coupled to FITC at F/P ratio ~3:7. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (0.1 ml) or **liquid** form (0.5 mg/0.5 ml). Reconstitute powder in PBS in 0.1 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:200-1:2000 for immunofluorescence.

Absorption Wavelength: 495 nm

Emission Wavelength: 528 nm

Cat# ALBB14-BTN, Biotin-conjugate

Purified anti-Bovine albumin IgG was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (50 ug) or **liquid** form (50 ug/50 ul or 1 mg/ml). Reconstitute powder in PBS in 0.1 ml to prepare 0.5 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA, 1:2K-1:10K for western.

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

Cat# ALBB14HRP, HRP-conjugate

Purified antibody was coupled to HRP (RZ>3.0) using periodate method. The molar enzyme to protein (E/P) ratio = 4.0. The antibody is supplied in stabilizing buffer, 0.1% proclin-300 as preservative in either **lyophilized** (0.5 ml) or **liquid** form (0.5-1 mg/ml). Reconstitute powder in PBS in 1 ml. Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA, 1:1K-1:5K for western, and 1:200-1:1000 (IHC).

Specificity & Cross-reactivity

Anti-Bovine albumin cross reactivity was tested in ELISA with the following animal Albumins: Rat (24%) and hamster (17%). Monkey, guinea pig, Rabbit, rabbit, chicken, sheep, pig, and bovine serum albumin, showed less than 1% reactivity. Other species not tested. Antibodies to human, rat, and other species albumin and ELISA kits also from ADI.

*This product is for In vitro research use only.

Related material available from ADI

Bovine, rat, human Albumin, IgG, IgM, IgE, and other serum protein ELISA kits

ALBB14-A-FITC-BTN

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