

Product Specification Sheet

Rat Serum Albumin Antibodies

Cat. # ALBR12-A	Sheep Anti-Rat serum albumin IgG, aff pure	SIZE: 100 ug
Cat. # ALBR12-BTN	Sheep Anti-Rat serum albumin IgG-Biotin conjugate	SIZE: 50 ug
Cat. # ALBR12-HRP	Sheep Anti-Rat serum albumin IgG-HRP conjugate	SIZE: 100 ul
Cat. # ALBR12-C	Purified Rat serum albumin protein control for Western	SIZE: 100 ul

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 Rat serum albumin
Ab Host/type	Sheep, polyclonal antibody affinity purified over the antigen column (cat #ALBR12-A)
2-ab	Anti-Sheep IgG-HRP cat # 30220 (AP, biotin, FITC conjugates also available)
Non immune IgG -ve control	Non-immune Sheep IgG to be used as -ve control for ELISA or Western (cat # 20006-1)

Cat# ALBR12-BTN, Biotin-conjugate

Purified anti-rat albumin IgG antibody 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). 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.

Rat ALBR12-C protein for Western blot +ve control (**Cat # ALBR12-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **ALBR12-C** for good visibility with antibody Cat # **ALBR12-S**. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve 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 **ALBR12-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

Cat# ALBR12-HRP, 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** (0.1 ml) or **liquid** form (0.1 ml @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).

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-Rat albumin cross reactivity was tested in ELISA with the following animal Albumins: Rat (100%) and hamster (17%). Monkey, guinea pig, Sheep, 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

Anti-mouse, rat, human albumin antibodies and conjugates and ELISA Kits

Mouse, Rat, Human, IgG, IgM, IgE, and other serum protein ELISA kits

Recycle your blot in Just 5-10 min. (use the same strip for various antibodies)

ALBR12-A, -C, ALBR12-BTN, ALBR12-HRP 70917A

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