

## Product datasheet for **AP31512HR-N**

### Alb Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ID, IF, IHC, R, WB
Recommended Dilution:	Can be used in enzyme-immunocytochemical and immunohistochemical staining for the detection of Albumin of appropriately treated cell and tissue substrates at the cellular and subcellular level. In non-isotopic assay methodology (e.g. ELISA) to identify and measure Albumin in Mouse serum or other body fluid. In electron microscopy, since the complex between the conjugated antibody and the antigen also has electron-dense properties. This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal. <u>Recommended Dilutions</u> Histochemical and Cytochemical Use: 1/100-1/500. ELISA and comparable non-precipitating antibody-binding assays: 1/2,000-1/10,000.
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Albumin is isolated from Mouse serum by sequential precipitation and purified by ion exchange chromatography and affinity chromatography. Freund's complete adjuvant is used in the first step of the immunization procedure.



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<b>Specificity:</b>	<p>Tested in Immunoelectrophoresis and Double Radial Immunodiffusion against pooled normal Mouse serum and purified Mouse Albumin. One characteristic precipitin line is obtained against pooled normal Mouse serum using different antigen/antibody concentration ratio's. Precipitin lines against normal Mouse serum and purified Mouse Albumin give a reaction of full identity.</p> <p><b>Cross-reactivity:</b> Inter-species cross-reactivity is a normal feature of antibodies to serum proteins, since homologous proteins of different species frequently share antigenic determinants. The degree of cross-reactivity is also dependent on the concentrations of the reactants and the sensitivity of the assay arrangement.</p> <p>This antiserum has been tested for cross-reactivity in Double Radial Immunodiffusion with the following results: Bovine (-), Chicken (-), Canine (-), Goat (-), Guinea Pig (++) , Hamster (+), Horse (+), Human (+), Monkey (+), Rat (++) , Sheep (-), Swine (+).</p> <p>A negative cross-reaction in Double Radial Immunodiffusion does not exclude some reaction in more sensitive techniques.</p>
<b>Formulation:</b>	<p>PBS, pH 7.2 without preservatives and foreign proteins Label: HRP State: Lyophilized purified hyperimmune IgG fraction Label: Horseradish Peroxidase Molar ratio: Enzyme/IgG ~1.7</p>
<b>Reconstitution Method:</b>	Restore by adding 1 ml of sterile distilled water
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Sequential Precipitation, Ion Exchange Chromatography and Affinity Chromatography
<b>Conjugation:</b>	HRP
<b>Storage:</b>	<p>Store the antibody lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer.</p> <p>If a slight precipitation occurs upon storage, this should be removed by centrifugation.</p>
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	albumin
<b>Database Link:</b>	<a href="#">Entrez Gene 11657 Mouse P07724</a>

**Background:**

Albumin is a soluble, monomeric protein which comprises about one half of the blood serum protein. Albumin functions primarily as a carrier protein for steroids, fatty acids, and thyroid hormones and plays a role in stabilizing extracellular fluid volume. Mutations in this gene on chromosome 4 result in various anomalous proteins. Albumin is a globular unglycosylated serum protein of molecular weight 65,000. The human albumin gene is 16,961 nucleotides long from the putative 'cap' site to the first poly(A) addition site. It is split into 15 exons which are symmetrically placed within the 3 domains that are thought to have arisen by triplication of a single primordial domain. Albumin is synthesized in the liver as preproalbumin which has an N terminal peptide that is removed before the nascent protein is released from the rough endoplasmic reticulum. The product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted albumin.

**Synonyms:**

ALB, BSA, HSA, Serum Albumin

**Note:**

**Adsorption:** Immunoaffinity adsorbed using insolubilized antigens as required to eliminate the antibody activity to any other component of the Mouse serum proteins.