

Datasheet: 0220-2424

**BATCH NUMBER 166286**

<b>Description:</b>	SHEEP ANTI RAT ALBUMIN
<b>Specificity:</b>	ALBUMIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/20 000 - 1/200 000
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

### Target Species

Rat

### Species Cross Reactivity

Reacts with: Bovine  
**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified Ig - liquid

### Preparation

Purified Ig prepared by affinity chromatography on Protein G

### Antiserum Preparation

Antiserum to rat albumin was raised by repeated immunisation of sheep with highly purified antigen.

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>)

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 5.0 mg/ml

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**Immunogen** Native albumin from rat serum

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## External Database Links

**UniProt:**

[P02770](#)    [Related reagents](#)

**Entrez Gene:**

[24186](#) Alb    [Related reagents](#)

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**RRID** AB\_2226081

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**Specificity** **Sheep anti Rat albumin antibody** recognizes rat albumin, a soluble protein which constitutes approximately 50% of blood serum protein, acting as a regulator of blood colloidal osmotic pressure and hence blood volume. albumin is also an important transporter of substances within the bloodstream, such as fatty acids, thyroid hormones, metal ions and steroids.

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## References

1. Westin, J.E. *et al.* (2006) Endothelial proliferation and increased blood-brain barrier permeability in the basal ganglia in a rat model of 3,4-dihydroxyphenyl-L-alanine-induced dyskinesia. [J Neurosci. 26: 9448-61.](#)
  2. Eyre J, *et al.* (2007) Statin-sensitive endocytosis of albumin by glomerular podocytes. [Am J Physiol Renal Physiol 292: F674-81.](#)
  3. Alonso, A. *et al.* (2010) Reorganization of gap junctions after focused ultrasound blood-brain barrier opening in the rat brain. [J Cereb Blood Flow Metab. 30: 1394-402.](#)
  4. Obeid, S. *et al.* (2017) Development of a NanoBioAnalytical platform for "on-chip" qualification and quantification of platelet-derived microparticles. [Biosens Bioelectron. 93: 250-9.](#)
  5. Michalski, D. *et al.* (2022) Regionally Altered Immunosignals of Surfactant Protein-G, Vascular and Non-Vascular Elements of the Neurovascular Unit after Experimental Focal Cerebral Ischemia in Mice, Rats, and Sheep. [Int J Mol Sci. 23 \(11\): 5875.](#)
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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/0220-2424>  
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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