

## Datasheet: AHP1267

<b>Description:</b>	GOAT ANTI HUMAN APOLIPOPROTEIN B
<b>Specificity:</b>	APOLIPOPROTEIN B
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/2000 - 1/10,000
Immunoprecipitation	▪			
Western Blotting	▪			1/200 - 1/1000
Functional Assays			▪	

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 appropriate negative/positive controls.

**Target Species** Human

**Product Form** Purified IgG - liquid

**Antiserum Preparation** Antisera to Apolipoprotein B were raised by repeated immunisations of goats with highly purified antigen. Purified IgG prepared by affinity chromatography.

**Buffer Solution** 125mM Sodium Borate  
75mM Sodium Chloride

**Preservative Stabilisers** <0.1% Sodium Azide (NaN<sub>3</sub>)  
5mM EDTA

**Approx. Protein** IgG concentration 1.0mg/ml

## Concentrations

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**Immunogen** Apolipoprotein type B, isolated from human plasma by density gradient centrifugation followed by HPLC purification.

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## External Database

### Links

**UniProt:**

[P04114](#)   [Related reagents](#)

**Entrez Gene:**

[338](#)   APOB   [Related reagents](#)

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**RRID** AB\_2258394

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## Specificity

**Goat anti Human Apolipoprotein B antibody** detects human Apolipoprotein B (ApoB), a large secretory protein with a molecular weight of ~550 kDa that plays a central role in lipoprotein metabolism.

ApoB exists in the plasma in 2 main isoforms, ApoB100 and ApoB48. ApoB100 is synthesized in the liver, and is the major apolipoprotein of very low density, intermediate density and low density lipoproteins (LDL), and is absolutely required for their formation. ApoB100 acts as a ligand for LDL receptors in various cells throughout the body, allowing cells to internalize LDL and absorb cholesterol.

ApoB48 is expressed in the intestine and is present on chylomicrons and their remnants, and lacks the C-terminal LDL-receptor binding region of ApoB100. Elevated plasma concentrations of ApoB containing lipoproteins are key risk factors for the development of atherosclerosis and myocardial infarction ([Marston \*et al.\* 2021](#)).

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**Western Blotting** AHP1267 detects a band of approximately 550kDa.

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## References

1. Philippova, M. *et al.* (2019) Analysis of fragmented oxidized phosphatidylcholines in human plasma using mass spectrometry: Comparison with immune assays. [Free Radic Biol Med. 144: 167-75.](#)

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## Further Reading

1. Olofsson, S.O. & Borèn, J. (2005) Apolipoprotein B: a clinically important apolipoprotein which assembles atherogenic lipoproteins and promotes the development of atherosclerosis. [J Intern Med. 258 \(5\): 395-410.](#)

2. Walldius, G. & Jungner, I. (2004) Apolipoprotein B and apolipoprotein A-I: risk indicators of coronary heart disease and targets for lipid-modifying therapy. [J Intern Med. 255 \(2\): 188-205.](#)

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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 #20464 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP1267>  
20464

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

**North & South America** Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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

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