

Datasheet: 4890-0004

Description:	SHEEP ANTI HUMAN HAPTOGLOBIN
Specificity:	HAPTOGLOBIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
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	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 5.0 mg/ml
Immunogen	Native, purified human haptoglobin from serum.

External Database Links

UniProt:

[P00738](#)

[Related reagents](#)

Entrez Gene:[3240](#) HP [Related reagents](#)

RRID AB_618599

Specificity **Sheep anti Human Haptoglobin antibody** detects haptoglobin, also known as Hp, an acute phase plasma glycoprotein synthesized by the liver in response to infection or inflammation. Haptoglobin binds haemoglobin released by erythrocytes with high affinity, and functions to block the oxidative activity of haemoglobin and prevent renal damage. The haptoglobin-haemoglobin complex is rapidly removed from the circulation by monocytes and macrophages, via the receptor CD163.

The haptoglobin genotype is an independent risk factor for cardiovascular disease ([Levy et al. 2002](#)).

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- References**
1. Guetta, J. *et al.* (2007) Haptoglobin genotype modulates the balance of Th1/Th2 cytokines produced by macrophages exposed to free hemoglobin. [Atherosclerosis. 191: 48-53.](#)
 2. Araki, H. *et al.* (2015) Haptoglobin promoter polymorphism rs5472 as a prognostic biomarker for peptide vaccine efficacy in castration-resistant prostate cancer patients. [Cancer Immunol Immunother. 64 \(12\): 1565-73.](#)
 3. Soejima, M. *et al.* (2014) Genetic factors associated with serum haptoglobin level in a Japanese population. [Clin Chim Acta. 433: 54-7.](#)
 4. Bucci, M. *et al.* (2012) Apolipoprotein A-I (ApoA-I) mimetic peptide P2a by restoring cholesterol esterification unmasks ApoA-I anti-inflammatory endogenous activity *in vivo*. [J Pharmacol Exp Ther. 340 \(3\): 716-22.](#)

Further Reading

1. Carter, K. & Worwood, M. (2007) Haptoglobin: a review of the major allele frequencies worldwide and their association with diseases. [Int J Lab Hematol. 29 \(2\): 92-110.](#)

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/4890-0004>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: 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

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: 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

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