

## Datasheet: 4890-0004

<b>Description:</b>	SHEEP ANTI HUMAN HAPTOGLOBIN
<b>Specificity:</b>	HAPTOGLOBIN
<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	■			
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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 5.0 mg/ml
<b>Immunogen</b>	Native, purified human haptoglobin from serum.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P00738</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3240</a> HP   <a href="#">Related reagents</a></p>

### 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 has been demonstrated to be an independent risk factor for cardiovascular disease in multiple epidemiological studies.

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**References**

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.](#)
2. 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.](#)
3. 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.](#)
4. Soejima, M. *et al.* (2014) Genetic factors associated with serum haptoglobin level in a Japanese population. [Clin Chim Acta. 433: 54-7.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted.  
Avoid repeated freezing and thawing as this may denature the antibody.  
Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[FITC](#), [HRP](#)

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