

Datasheet: AHP082

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunodiffusion	▪			Neat
Immunofluorescence	▪			

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
Species Cross Reactivity	Reacts with: Rat, Cat, Rabbit, Mouse, Dog, Horse, Pig Does not react with: Bovine, Chicken, Guinea Pig N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human haptoglobulin were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG was prepared by ion exchange chromatography.
Buffer Solution	Glycine buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	0.1% EACA 0.01% Benzamidine 1mM EDTA

Immunogen Human haptoglobin purified from serum.

External Database Links

UniProt:
[P00738](#) [Related reagents](#)

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

Specificity

Sheep anti Human haptoglobin antibody recognizes human haptoglobin, a plasma protein that has high affinity for hemoglobin and is responsible for its capture and hepatic recycling. This process also acts to prevent kidney damage where hemoglobin would otherwise accumulate prior to excretion in the urine. Haptoglobin/hemoglobin complexes are cleared from the circulation in the liver by Kupffer cells expressing the CD163 scavenger receptor.

Two isoforms of human haptoglobin produced by alternative splicing have been described. Sheep anti Human haptoglobin antibody (**AHP082**) binds to the canonical isoform 1 of human haptoglobin, binding to the truncated (missing residues 38-96) isoform 2 has not been evaluated.

Mutation of the HP gene can lead to the development of Anhaptoglobinemia (**AHP**), a disease characterized by an absence of serum haptoglobin ([Teve et al. 2004](#)).

References

1. Gustafsson, K. *et al.* (1997) *Toxoplasma gondii* infection in the mountain hare (*Lepus timidus*) and domestic rabbit (*Oryctolagus cuniculus*). II. Early immune reactions. [J Comp Pathol. 117 \(4\): 361-9.](#)
 2. Hoagland, L.F. 4th *et al.* (2007) Haptoglobin and posttranslational glycan-modified derivatives as serum biomarkers for the diagnosis of nonsmall cell lung cancer. [Cancer. 110 \(10\): 2260-8.](#)
 3. Merrill, C.R. *et al.* (1995) Diagnosing Alzheimer's disease and schizophrenia [US patent No 5,429,947.](#)
 4. McGuire, W. *et al.* (1996) C-reactive protein and haptoglobin in the evaluation of a community-based malaria control programme. [Trans R Soc Trop Med Hyg. 90 \(1\): 10-4.](#)
-

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

Please see label for expiry date.

Health And Safety Information

Material Safety Datasheet documentation #10087 available at:
10087: <https://www.bio-rad-antibodies.com/uploads/MSDS/10087.pdf>

Regulatory

For research purposes only

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](#)

North & South America Tel: +1 800 265 7376
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

'M317035:180618'

Printed on 21 Jun 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)