

## Datasheet: 1940-0004

<b>Description:</b>	SHEEP ANTI HUMAN CERULOPLASMIN
<b>Specificity:</b>	CERULOPLASMIN
<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
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
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
<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>	Highly pure human ceruloplasmin.

**External Database  
Links**

**UniProt:**

[P00450](#)   [Related reagents](#)

**Entrez Gene:**

[1356](#) CP   [Related reagents](#)

---

**RRID**      AB\_2085556

---

**Specificity**

**Sheep anti Human ceruloplasmin antibody** detects ceruloplasmin, a ~132kDa metalloprotein that is secreted into the plasma by liver hepatocytes and activated monocytes/macrophages. Ceruloplasmin functions in copper transport, iron homeostasis, antioxidant defence, angiogenesis and coagulation.

Deficiency in ceruloplasmin is termed aceruloplasminemia, an autosomal recessive disorder which leads to iron accumulation and tissue damage, in particular in the brain and visceral organs. Clinical features include retinal degeneration, diabetes mellitus and neurological disturbances.

Elevated plasma ceruloplasmin has been shown to pose an increased risk in atherosclerosis and myocardial infarction.

---

**ELISA**

This antibody has been used at dilutions as high as 1/400K in a simple ELISA with 0.1 µg of antigen coated per well.

---

**References**

1. Balmaña, M. *et al.* (2015) Identification of potential pancreatic cancer serum markers: Increased sialyl-Lewis X on ceruloplasmin. [Clin Chim Acta. 442: 56-62.](#)

---

**Further Reading**

1. Mazumder, B. *et al.* (2005) Regulation of macrophage ceruloplasmin gene expression: one paradigm of 3'-UTR-mediated translational control. [Mol Cells. 20 \(2\): 167-72.](#)

---

**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/1940-0004>  
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](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://bio-rad-antibodies.com/datasheets)

'M427914:240301'

**Printed on 01 Mar 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)