

Datasheet: 1940-0004

Description:	SHEEP ANTI HUMAN CERULOPLASMIN
Specificity:	CERULOPLASMIN
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
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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 5.0 mg/ml
Immunogen	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

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.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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