

Datasheet: 1940-0004P

Description:	SHEEP ANTI HUMAN CERULOPLASMIN:HRP
Specificity:	CERULOPLASMIN
Format:	HRP
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	▪			1/10 - 1/500
Immunohistology - Paraffin			▪	
ELISA	▪			1/100 - 1/5000
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 appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal HRP Stabiliser (BUF052A)
Approx. Protein Concentrations	Ig concentration 1.0 mg/ml
Immunogen	Highly pure human ceruloplasmin.

**External Database
Links**

UniProt:

[P00450](#) [Related reagents](#)

Entrez Gene:

[1356](#) CP [Related reagents](#)

RRID AB_2085555

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. DO NOT FREEZE.
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 #10131 available at:
10131: <https://www.bio-rad-antibodies.com/uploads/MSDS/10131.pdf>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

North & South Tel: +1 800 265 7376

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From
March

15, 2021, we will no longer supply printed datasheets with our products.
Look out for updates on how to access your digital version at bio-rad-antibodies.com

'M362950:200528'

Printed on 02 Mar 2021

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