

Ceruloplasmin Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11658**Specification**

Ceruloplasmin Antibody - Product Information

Application	WB
Primary Accession	P00450
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	122219

Ceruloplasmin Antibody - Additional Information**Gene ID** 1356**Other Names**

Ferroxidase, CP, CP-2

Target/Specificity

Ceruloplasmin

Formulation

100 µg (0.5 mg/ml) of antibody in PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin®, and 50 % glycerol.

Handling

The antibody solution should be gently mixed before use.

Background Descriptions**Precautions**

Ceruloplasmin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Ceruloplasmin Antibody - Protein Information**Name** CP ([HGNC:2295](#))**Function**

Multifunctional blue, copper-binding (6-7 atoms per molecule) glycoprotein. It has ferroxidase activity oxidizing Fe(2+) to Fe(3+) without releasing radical oxygen species. It is involved in iron transport across the cell membrane (PubMed:16150804). Copper ions provide a large number of enzymatic activities. Oxidizes highly toxic ferrous ions to the ferric state for further incorporation onto apo- transferrins, catalyzes Cu(+) oxidation and promotes the

oxidation of biogenic amines such as norepinephrin and serotonin (PubMed:5912351, PubMed:14623105). Provides Cu(2+) ions for the ascorbate-mediated deaminase degradation of the heparan sulfate chains of GPC1 (By similarity). Has glutathione peroxidase-like activity, can remove both hydrogen peroxide and lipid hydroperoxide in the presence of thiols (PubMed:10481051). Also shows NO-oxidase and NO2 synthase activities that determine endocrine NO homeostasis (PubMed:16906150).

Cellular Location

Secreted. Note=Colocalizes with GPC1 in secretory intracellular compartments {ECO:0000250|UniProtKB:P13635}

Tissue Location

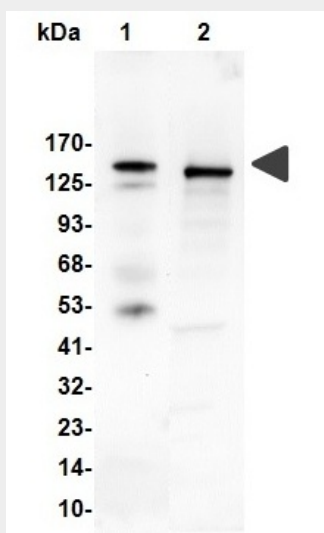
Expressed by the liver and secreted in plasma.

Ceruloplasmin Antibody - Protocols

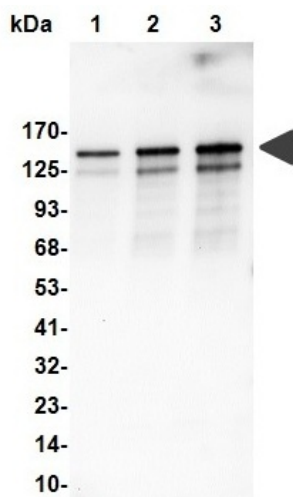
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Ceruloplasmin Antibody - Images



Western blot analysis of anti-Ceruloplasmin pAb in human serum and rat kidney.



Dose-dependent western blot analysis of anti-Ceruloplasmin pAb. Lane1: 2ng human ceruloplasmin protein; Lane1: 5ng human ceruloplasmin protein; Lane1: 10ng human ceruloplasmin protein.

Ceruloplasmin Antibody - Background

Ceruloplasmin is a blue, copper-binding (6-7 atoms per molecule) glycoprotein. It has ferroxidase activity oxidizing Fe^{2+} to Fe^{3+} without releasing radical oxygen species. It is involved in iron transport across the cell membrane. Provides Cu^{2+} ions for the ascorbate-mediated deaminase degradation of the heparan sulfate chains of GPC1. May also play a role in fetal lung development or pulmonary antioxidant defense