

**Anti-Ceruloplasmin Rabbit Monoclonal Antibody**  
Catalog # ABO16691**Specification****Anti-Ceruloplasmin Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P00450</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Ceruloplasmin Rabbit Monoclonal Antibody . Tested in WB applications. This antibody reacts with Human, Rat.

**Anti-Ceruloplasmin Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 1356

**Other Names**

Ceruloplasmin, Cuproxidase ceruloplasmin, 1.16.3.4, Ferroxidase ceruloplasmin, 1.16.3.1, Glutathione peroxidase ceruloplasmin, 1.11.1.9, Glutathione-dependent peroxiredoxin ceruloplasmin, 1.11.1.27, CP ([HGNC:2295](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=2295))

**Application Details**

WB 1:500-1:2000

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Ceruloplasmin

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Ceruloplasmin Rabbit Monoclonal 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:<a href="http://www.uniprot.org/citations/16150804" target="\_blank">16150804</a>). 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:<a href="http://www.uniprot.org/citations/14623105" target="\_blank">14623105</a>, PubMed:<a href="http://www.uniprot.org/citations/4643313" target="\_blank">4643313</a>, PubMed:<a href="http://www.uniprot.org/citations/5912351" target="\_blank">5912351</a>). 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:<a href="http://www.uniprot.org/citations/10481051" target="\_blank">10481051</a>). Also shows NO-oxidase and NO<sub>2</sub> synthase activities that determine endocrine NO homeostasis (PubMed:<a href="http://www.uniprot.org/citations/16906150" target="\_blank">16906150</a>).

### 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.

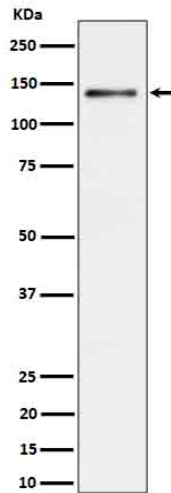
## Anti-Ceruloplasmin Rabbit Monoclonal Antibody - Protocols

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

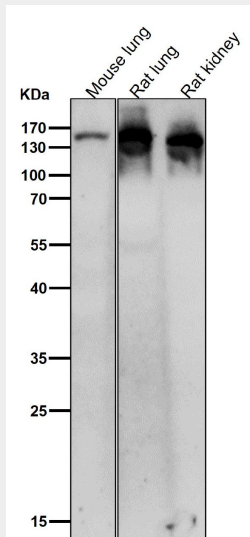
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Ceruloplasmin Rabbit Monoclonal Antibody - Images





Western blot analysis of Ceruloplasmin expression in Rat liver cell lysate.



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.