

Anti-Ceruloplasmin Rabbit Monoclonal Antibody Catalog # ABO16691

Specification

Anti-Ceruloplasmin Rabbit Monoclonal Antibody - Product Information

Application	WB
Primary Accession	P00450
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: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:14623105, PubMed:4643313, PubMed:5912351). 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.

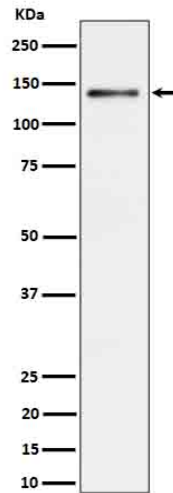
Anti-Ceruloplasmin Rabbit Monoclonal Antibody - Protocols

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

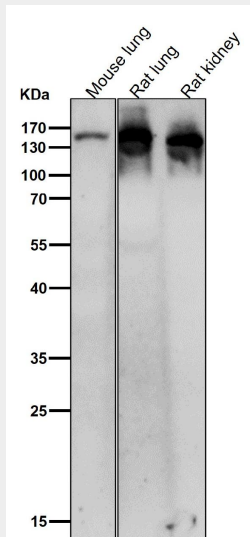
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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.