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Anti-Ceruloplasmin Rabbit Monoclonal Antibody

Catalog # ABO16691

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.

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)
Calculated MW	122219
Application Details	WB 1:500-1:2000
Source	Eukaryota
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.
Clone Names	Clone: 31C62
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.

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). Acts as an inhibitor of the peroxidase activity of MPO (By similarity). Also shows NO-oxidase and NO2 synthase activities that determine endocrine NO homeostasis (PubMed:16906150).

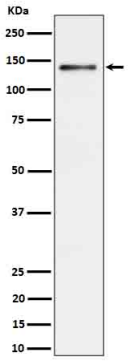
Cellular Location

Secreted. Note=Colocalizes with GCP1 in secretory intracellular compartments {ECO:0000250|UniProtKB:P13635}

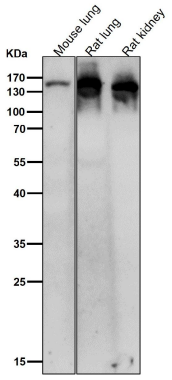
Tissue Location

Expressed by the liver and secreted in plasma.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.