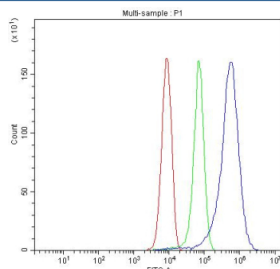


Ceruloplasmin Antibody / CP (R31856)

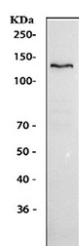
Catalog No.	Formulation	Size
R31856	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P00450
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Ceruloplasmin antibody is available for research use only.



Flow cytometry testing of fixed human HepG2 cells with Ceruloplasmin antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=Ceruloplasmin antibody.



Western blot testing of human HepG2 cell lysate with Ceruloplasmin antibody. Predicted molecular weight ~122 kDa but may be observed at higher molecular weights due to glycosylation.

Description

Ceruloplasmin (CP) is a copper-binding glycoprotein primarily synthesized in the liver and secreted into the plasma. It plays an essential role in iron metabolism by oxidizing Fe^{2+} to Fe^{3+} , facilitating its binding to transferrin for transport. Beyond its ferroxidase activity, Ceruloplasmin functions as an antioxidant and contributes to copper transport, wound healing, and defense against oxidative stress.

CP is widely expressed in various tissues and is present in high concentrations in the blood. Its regulation is influenced by physiological states such as pregnancy, inflammation, and hormonal changes. Due to its multifunctional nature, Ceruloplasmin has been a focus of studies in biochemistry, nutritional science, and oxidative stress biology.

The **Ceruloplasmin antibody** is a reliable tool for detecting CP in applications including western blot, immunohistochemistry, and ELISA. Researchers use the Ceruloplasmin antibody from NSJ Bioreagents to evaluate protein expression levels, study tissue distribution, and explore its roles in metal ion homeostasis and oxidative defense mechanisms. With high specificity and reproducible performance, the Ceruloplasmin antibody supports a wide range of research in molecular biology, metabolism, and protein biochemistry.

Application Notes

Optimal dilution of the Ceruloplasmin antibody should be determined by the researcher.

Immunogen

Amino acids 20-259 of human Ceruloplasmin were used as the immunogen for the Ceruloplasmin antibody.

Storage

After reconstitution, the Ceruloplasmin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.