AP21233AF-N

**Polyclonal Antibody to Ceruloplasmin - Azide Free**

**Alternate names:** CP, Ferroxidase

**Quantity:** 10 mg

**Concentration:** 10.0 mg/ml

**Background:**
Ceruloplasmin is a copper binding plasma glycoprotein consisting of a single polypeptide chain. It has a molecular weight of 132kDa and occurs in plasma at a concentration of 150-500 mg/L. Although the physiological functions of Ceruloplasmin are not fully understood it is implicated in a number of possible functions. 95% of plasma copper is bound to Ceruloplasmin, implying some involvement in copper transport. Ceruloplasmin has been described as both an oxidant and an antioxidant, its exact role or roles in this respect are not clear. Plasma levels of Ceruloplasmin are elevated after inflammation and trauma and it is therefore classified as an acute phase protein. The measurement of Ceruloplasmin in plasma is useful in the diagnosis of Wilson's disease, where levels are greatly reduced. Ceruloplasmin is extremely labile in plasma and rapidly degrades to 115kDa and 19kDa fragments. The age of plasma samples should therefore be taken into account when interpreting immunological analysis of ceruloplasmin.

**Uniprot ID:** P00450

**NCBI:** NP_000087

**GeneID:** 1356

**Host / Isotype:** Rabbit / IgG

**Immunogen:** Ceruloplasmin isolated and purified from Human serum.

Freund's complete adjuvant is used in the first step of the immunization procedure.

**Format:**
- **State:** Lyophilized Hyperimmune IgG fraction
- **Purification:** Ammonium Sulphate Precipitation and Ion Exchange Chromatography
- **Buffer System:** PBS, pH 7.2 without preservatives and foreign proteins
- **Reconstitution:** Restore by adding 1.0 ml of sterile distilled water.

Prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2) and preferably use the same day.

**Applications:**
This product is intended for use in Precipitating and non-Precipitating antibody-binding assays (such as e.g., ELISA and Western blotting and Immunofluorescence or Histochemical techniques), to prepare an insoluble immuno-affinity adsorbent, for labelling with a marker of the customer's own choice.

General Working Dilutions in non-precipitating antibody-binding techniques:
1/1,000-1/7,000.

Immunohistochemistry on Paraffin Sections: 1/200.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity: The antibody recognizes Ceruloplasmin from Human serum. The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immunoelectrophoresis, Cross-Immunoelectrophoresis, single Radial Immunodiffusion (Ouchterlony), Block titration, ELISA, Immunoblotting and Enzyme Inhibition. Cross-reactivities against enzymes of other sources may occur but have not been determined.

Species: Human.
Other species not tested.

Storage: Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures: Formalin-Fixed, Paraffin-Embedded Human Placenta stained with Ceruloplasmin Antibody Cat.-No AP21233AF-N at 1/200 dilution after heat-induced antigen retrieval.