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Product datasheet for AP21233BT-N

Ceruloplasmin (CP) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ID, IF, IP, R, WB
Recommended Dilution:	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). Working dilutions in non-precipitating antibody-binding techniques: 1/1,000-1/10,000.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Ceruloplasmin isolated and purified from Human serum. Freund's complete adjuvant is used in the first step of the immunization procedure.
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.
Formulation:	PBS, pH 7.2 without preservatives and foreign proteins Label: Biotin State: Lyophilized Hyperimmune IgG fraction Label: N-Hydroxysuccinimidobiotin Molar radio: Biotin/IgG: ~5.6
Reconstitution Method:	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.
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation and Ion Exchange Chromatography
Conjugation:	Biotin

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Storage:	Store the antibody lyophilized at 2-8°C Reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer. If a slight precipitation occurs upon storage, this should be removed by centrifugation.
Stability:	Shelf life: one year from despatch.
Gene Name:	ceruloplasmin (ferroxidase)
Database Link:	Entrez Gene 1356 Human P00450
Background:	Caeruloplasmin 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 Caeruloplasmin are not fully understood it is implicated in a number of possible functions. 95% of plasma copper is bound to Caeruloplasmin, implying some involvement in copper transport. Caeruloplasmin has been described as both an oxidant and an antioxidant, its exact role or roles in this respect are not clear. Plasma levels of Caeruloplasmin are elevated after inflammation and trauma and it is therefore classified as an acute phase protein. The measurement of Caeruloplasmin in plasma is useful in the diagnosis of Wilson's disease, where levels are greatly reduced. Caeruloplasmin 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 caeruloplasmin.
Synonyms:	Ferroxidase, CP
Protein Families:	Druggable Genome
Protein Pathways:	Porphyrin and chlorophyll metabolism