abcam

Product datasheet

Native Human Ceruloplasmin protein ab77930

1 Image

Description

Product name	Native Human Ceruloplasmin protein
Purity	> 95 % SDS-PAGE.
Expression system	Native
Protein length	Full length protein
Animal free	No
Nature	Native
Species	Human

Specifications

Our Abpromise guarantee covers the use of **ab77930** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot
Form	Lyophilized
Additional notes	All human source materials have tested negative for HIV-1 and HIV-2 and non-reactive with HCV and HBc antibodies and HBsAg. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious. **Storage Notes:** Prolonged exposure to light will degrade the ceruloplasmin. This will lead to a decrease in the blue color of the product.

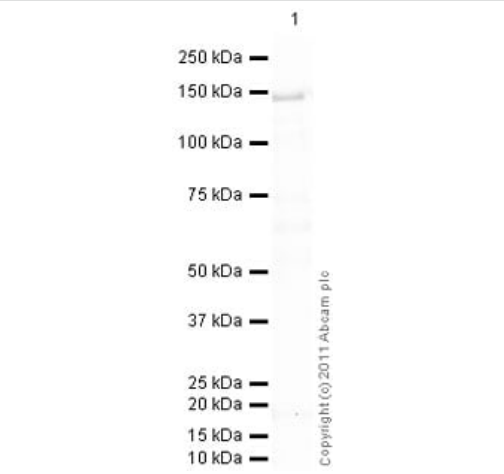
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark. Constituents: 0.262% EACA, 0.75% Potassium chloride, 1.06% Potassium phosphate, 0.146% EDTA
Reconstitution	Reconstitute with distilled water. Please contact Abcam for lot-specific recommended volume.

General Info

Function	Ceruloplasmin is a 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.
Tissue specificity	Expressed by the liver and secreted in plasma.
Involvement in disease	Defects in CP are the cause of aceruloplasminemia (ACERULOP) [MIM:604290]. It is an autosomal recessive disorder of iron metabolism characterized by iron accumulation in the brain as well as visceral organs. Clinical features consist of the triad of retinal degeneration, diabetes mellitus and neurological disturbances. Note=Ceruloplasmin levels are decreased in Wilson disease, in which copper cannot be incorporated into ceruloplasmin in liver because of defects in the copper-transporting ATPase 2.
Sequence similarities	Belongs to the multicopper oxidase family. Contains 3 F5/8 type A domains. Contains 6 plastocyanin-like domains.
Cellular localization	Secreted.

Images



Western blot - Native Human Ceruloplasmin protein (ab77930)

Anti-Ceruloplasmin antibody (ab110449) at 1 µg/ml + Native Human Ceruloplasmin protein (ab77930) at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 30 seconds

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