Datasheet for ABIN3044507

anti-Ceruloplasmin antibody (AA 20-259)

2 Images

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Overview

Quantity:	100 µg
Target:	Ceruloplasmin (CP)
Binding Specificity:	AA 20-259
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Ceruloplasmin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Ceruloplasmin(CP) detection. Tested with WB, IHC-P in Human.
Immunogen:	E. coli-derived human Ceruloplasmin recombinant protein (Position: K20-M259). Human Ceruloplasmin shares 80.8% and 79.6% amino acid (aa) sequence identity with mouse and rat Ceruloplasmin, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Ceruloplasmin(CP) detection. Tested with WB, IHC-P in Human. Gene Name: ceruloplasmin (ferroxidase) Protein Name: Ceruloplasmin

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Ceruloplasmin (CP)
Alternative Name:	CP (CP Products)
Background:	Ceruloplasmin (or caeruloplasmin) is a ferroxidase enzyme that in humans is encoded by the CP gene. It is mapped to 3q23-q25. The protein encoded by this gene is a metalloprotein that binds most of the copper in plasma and is involved in the peroxidation of Fe(II)transferrin to Fe(III) transferrin. Mutations in this gene cause aceruloplasminemia, which results in iron accumulation and tissue damage, and is associated with diabetes and neurologic abnormalities. Two transcript variants, one protein-coding and the other not protein-coding, have been found for this gene. Synonyms: CERU_HUMAN antibody|Ceruloplasmin antibody|CP 2 antibody|CP antibody|CP2 antibody|Ferroxidase antibody
Gene ID:	1356
UniProt:	P00450
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

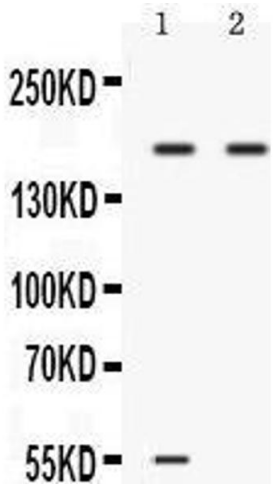
Handling

Format:	Lyophilized

Handling

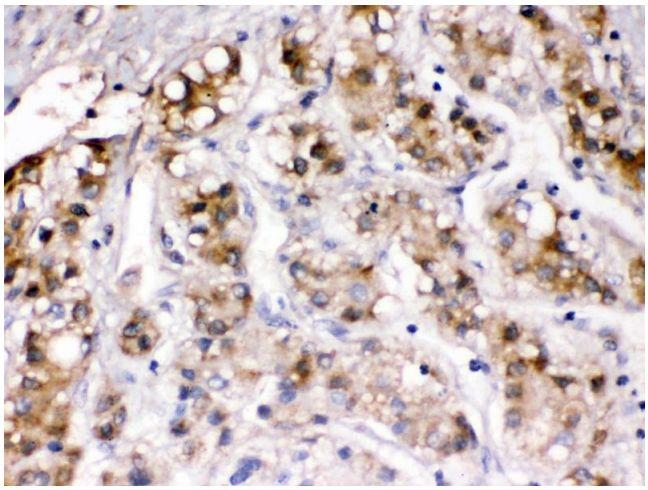
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



Western Blotting

Image 1. Western blot analysis of Ceruloplasmin expression in 22RV1 whole cell lysates (lane 1) and A549 whole cell lysates (lane 2). Ceruloplasmin at 180KD was detected using rabbit anti- Ceruloplasmin Antigen Affinity purified polyclonal antibody at0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Ceruloplasmin was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti-Ceruloplasmin Antigen Affinity purified polyclonal antibody at 1 µg/mL. The immunohistochemical section was developed using SABC method