

anti-Human Ceruloplasmin Polyclonal Antibody | anti-CP antibody

Anti-Ceruloplasmin Antibody

CATALOG # AAA46373	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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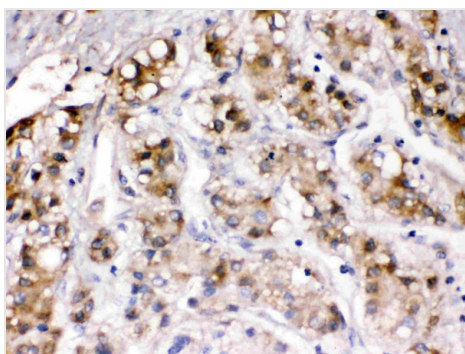
PRODUCT SYNONYMS

Ceruloplasmin; Polyclonal Antibody; Anti-Ceruloplasmin Antibody; CERU_HUMAN; CP 2; CP; CP2; Ferroxidase; ceruloplasmin (ferroxidase); anti-CP antibody

PRODUCT SPECIFICATIONS

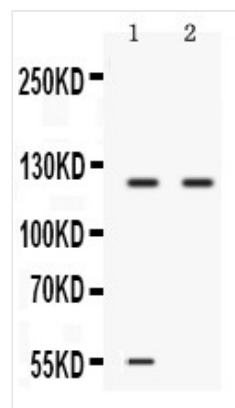
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	1065
Applicable Applications for anti-CP antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	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.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

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



WB (Western Blot)

Western blot analysis of Ceruloplasmin expression in 22RV1 whole cell lysates (lane 1) and A549 whole cell lysates (lane 2). Ceruloplasmin at 122KD was detected using rabbit anti- Ceruloplasmin Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-CP antibody	Description: Rabbit IgG polyclonal antibody for Ceruloplasmin(CP) detection. Tested with WB, IHC-P in Human. 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.
References	1. Koschinsky ML, Funk WD, van Oost BA, MacGillivray RT (Jul 1986). "Complete cDNA sequence of human preceruloplasmin". Proceedings of the National Academy of Sciences of the United States of America 83 (14): 5086-90. 2. Royle NJ, Irwin DM, Koschinsky ML, MacGillivray RT, Hamerton JL (May 1987). "Human genes encoding prothrombin and ceruloplasmin map to 11p11-q12 and 3q21-24, respectively". Somatic Cell and Molecular Genetics 13(3): 285-92. 3. Takahashi N, Ortel TL, Putnam FW (Jan 1984). "Single-chain structure of human ceruloplasmin: the complete amino acid sequence of the whole molecule". Proceedings of the National Academy of Sciences of the United States of America 81 (2): 390-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557485
NCBI GeneID	1356
NCBI Accession #	NP_000087.1
NCBI GenBank Nucleotide #	NM_000096.3
UniProt Accession #	P00450; Q14063; Q2PP18; Q9UKS4
Molecular Weight	122,205 Da
NCBI Official Full Name	ceruloplasmin
NCBI Official Synonym Full Names	ceruloplasmin (ferroxidase)
NCBI Official Symbol	CP
NCBI Official Synonym Symbols	CP-2
NCBI Protein Information	ceruloplasmin
UniProt Protein Name	Ceruloplasmin
UniProt Gene Name	CP
UniProt Entry Name	CERU_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.