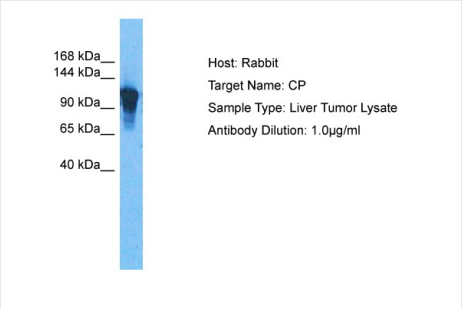
CP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CP, Polyclonal Antibody
Full Product Name	CP Antibody - middle region
Product Gene Name	anti-CP antibody
Product Synonym Gene Name	CP-2
Immunogen Sequence	Synthetic peptide located within the following region: HIDREFVVMF SVVDENFSWY LEDNIKTYCS EPEKVDKDNE DFQESNRMYS
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CP peptide (MBS3245534) is used for blocking the activity of CP antibody (MBS3220732)
Molecular Weight	122 kDa
OMIM	117700
3D Structure	ModBase 3D Structure for P00450
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human CP
Product Categories/Family for anti-CP antibody	Polyclonal
Applications Tested/Suitable for anti-CP antibody	Western Blot (WB)
Related Product Information for anti-CP antibody	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.
Other Notes	Small volumes of anti-CP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CP purchase	MBS3220732 is an antibody targeting CP. Also known as CP Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CP antibody
Host: RabbitTarget Name: CPSample Tissue: Human Liver TumorAntibody Dilution: 1.0ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CP. It may not necessarily be applicable to this product.

NCBI GI #	4557485
NCBI GeneID	1356
NCBI Accession #	NP_000087.1
UniProt Primary Accession #	P00450
UniProt Related Accession #	P00450
GenBank Nucleotide #	NM_000096.3
NCBI Official Full Name	ceruloplasmin
NCBI Official Synonym Full Names	ceruloplasmin
NCBI Official Symbol	CP
NCBI Official Synonym Symbols	CP-2
UniProt Protein Name	Ceruloplasmin
UniProt Synonym Protein Names	Ferroxidase
Protein Family	Ceruloplasmin
UniProt Gene Name	CP
UniProt Entry Name	CERU_HUMAN
NCBI Protein Information	ceruloplasmin

UniProt Comments for CP	CP: 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. Provides Cu(2+) ions for the ascorbate-mediated deaminase degradation of the heparan sulfate chains of GPC1. May also play a role in fetal lung development or pulmonary antioxidant defense. Defects in CP are the cause of aceruloplasminemia (ACERULOP). 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. 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. Belongs to the multicopper oxidase family. Protein type: Secreted; EC 1.16.3.1; Cofactor and Vitamin Metabolism - porphyrin and chlorophyll; Oxidoreductase; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3q23-q25 Cellular Component: extracellular space; lysosomal membrane; extracellular region Molecular Function: ferroxidase activity; copper ion binding; chaperone binding Biological Process: cellular iron ion homeostasis; copper ion transport; transmembrane transport Disease: Aceruloplasminemia
Research Articles on CP	**1.** ceruloplasmin as a biomarker of chronic kidney disease in urine of sickle cell disease patients
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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