



Anti-Ceruloplasmin monoclonal antibody, clone 4C12 (CAB-10387MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse Anti-CP Monoclonal Antibody
Antigen Description	Ceruloplasmin, 132kDa, is a serum ferroxidase that contains greater than 95% of the copper found in plasma. This protein is a member of the multicopper oxidase family an evolutionarily conserved group of proteins that utilize copper to couple substrate oxidation with the four-electron reduction of oxygen to water. Despite the need for copper in ceruloplasmin function, this protein plays no essential role in the transport or metabolism of this metal. Serum ceruloplasmin level is reduced in Wilson's disease, malnutrition nephrotic syndrome and increased in pregnancy, oestrogen containing contraceptives, acute infection, some types of chronic liver disease, malignancy, rheumatoid arthritis.
Target	Ceruloplasmin
Immunogen	Protein purified from Human plasma
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	4C12
Conjugate	Unconjugated
Applications	ELISA, WB, IP, IHC-P
Concentration	Lot specific
Size	100 µl

Preservative	None
Storage	Store for 1 year at -20°C from date of shipment

GENE INFORMATION

Gene Name	CP ceruloplasmin (ferroxidase) [Homo sapiens]
Official Symbol	CP
Synonyms	CP; ceruloplasmin (ferroxidase); ceruloplasmin; CP-2;
Entrez Gene ID	1356
Protein Refseq	NP_000087
UniProt ID	A5PL27
Chromosome Location	3q23-q25
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metal ion SLC transporters, organism-specific biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem; Porphyrin and chlorophyll metabolism, conserved biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem;
Function	chaperone binding; copper ion binding; ferroxidase activity; metal ion binding; oxidoreductase activity;