



Anti-Ceruloplasmin monoclonal antibody, clone MAFB4020 (CAB-1098MH)

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 (or caeruloplasmin) is a ferroxidase enzyme that in humans is encoded by the CP gene. Ceruloplasmin is the major copper-carrying protein in the blood, and in addition plays a role in iron metabolism. It was first described in 1948. It is an enzyme synthesized in the liver containing 6 atoms of copper in its structure. Ceruloplasmin carries about 70% of the total copper in human plasma. Ceruloplasmin exhibits a copper-dependent oxidase activity, which is associated with possible oxidation of Fe2+ (ferrous iron) into Fe3+ (ferric iron), therefore assisting in its transport in the plasma in association with transferrin, which can only carry iron in the ferric state. The molecular weight of human ceruloplasmin is reported to be 151kDa.
Specificity	Anti-Ceruloplasmin recognizes recombinant protein Ceruloplasmin.
Target	Ceruloplasmin
Immunogen	Purified mouse monoclonal antibody generated using E.coli expressed recombinant protein Ceruloplasmin as immunogen, corresponding to fragment(aa/933-1065) Ceruloplasmin.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	MAFB4020
Conjugate	Unconjugated
Applications	ELISA, WB
Format	Each vial contains 100μg IgG in 100μl of citrate-tris-HCl buffer pH7.0 with 0.02% Proclin 300.

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Size	100 µl
Preservative	None
Storage	The antibody may be stored at -20°C for one year in its original formulation. Additionally, antibody may be stored at 2°C to 8°C for up to 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles of the diluted antibody.

GENE INFORMATION

Gene Name	CP ceruloplasmin (ferroxidase) [Homo sapiens]
Official Symbol	СР
Synonyms	CP; ceruloplasmin (ferroxidase); ceruloplasmin; CP-2;
Entrez Gene ID	1356
Protein Refseq	NP_000087
UniProt ID	<u>A5PL27</u>
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;

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