

Store at
-20C
#98971**Ceruloplasmin (D7Q5W) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #P00450	Entrez-Gene Id: 1356
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Ceruloplasmin (D7Q5W) Rabbit mAb recognizes endogenous levels of total Ceruloplasmin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe727 of human Ceruloplasmin protein.

Background

Ceruloplasmin is a copper-binding glycoprotein with ferroxidase activity. It oxidizes Fe²⁺ to Fe³⁺, facilitating iron transport across the cell membrane (1). Mutation in Ceruloplasmin causes aceruloplasminemia, an autosomal recessive disorder of iron metabolism characterized by iron accumulation in the brain as well as visceral organs, resulting in retinal degeneration, diabetes mellitus and neurological disturbances (2,3). Ceruloplasmin level in serum has been explored as a diagnostic marker for Wilson disease and ischemic heart disease (4,5).

Background References

1. Pantopoulos, K. et al. (2012) *Biochemistry* 51, 5705-24.
2. Miyajima, H. (2015) *Neuropathology* 35, 83-90.
3. Kono, S. (2013) *Int Rev Neurobiol* 110, 125-51.
4. Kelly, D. et al. (2016) *Ir Med J* 109, 341-3.
5. Daybanyrova, L.V. and Shevchenko, O.P. (2015) *Wiad Lek* 68, 517-9.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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