

#98971 Store at -20°C

Ceruloplasmin (D7Q5W) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	140	Rabbit IgG	#P00450	1356

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 Fe ²⁺ to Fe ³⁺ , 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) <i>Biochemistry</i> 51, 5705-24. 2. Miyajima, H. (2015) <i>Neuropathology</i> 35, 83-90. 3. Kono, S. (2013) <i>Int Rev Neurobiol</i> 110, 125-51. 4. Kelly, D. et al. (2016) <i>Ir Med J</i> 109, 341-3. 5. Daybanyrova, L.V. and Shevchenko, O.P. (2015) <i>Wiad Lek</i> 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	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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