

CERU Rabbit pAb

CatalogNo: YN0581

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 117kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from part region of human protein. AA range:908-1008

Specificity CERU Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name CP

Protein Name Ceruloplasmin (Ferroxidase)

Organism	Gene ID	UniProt ID
Human	1356 ;	P00450 ;
Mouse		Q61147 ;
Rat		P13635 ;

Cellular Localization Secreted. Colocalizes with GCP1 in secretory intracellular compartments. .

Tissue specificity Expressed by the liver and secreted in plasma.

Function Catalytic activity: $4 \text{ Fe (2+)} + 4 \text{ H (+)} + \text{O (2)} = 4 \text{ Fe (3+)} + 2 \text{ H (2) O}$. ,cofactor: Binds 6 copper ions per monomer. ,Disease: 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. ,Disease: Defects in CP are the cause of aceruloplasminemia (ACERULOP) [MIM:604290]. 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. ,Function: 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. ,online information: Ceruloplasmin entry ,similarity: Belongs to the multicopper oxidase family. ,similarity: Contains 3 F5/8 type A domains. ,similarity: Contains 6 plastocyanin-like domains. ,tissue specificity: Expressed by the liver and secreted in plasma. ,

Validation Data

Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:
CERU Rabbit pAb

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