

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

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 Fe(2+) + 4 H(+) + O(2) = 4 Fe(3+) + 2 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@immunoway.com
 Support: tech@immunoway.com
 Telephone: 877-594-3616 (Toll Free), 408-747-0185
 Website: <http://www.immunoway.com>
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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