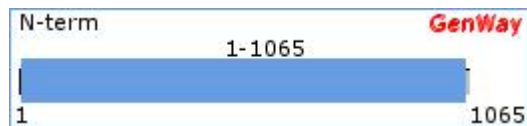


# Ceruloplasmin, Antibody



EC 1.16.3.1, Ferroxidase

<b>Catalog Number: 15-288-20074F</b>	
SwissProt Accession #: P00450	CERU_HUMAN
NCBI Accession #: NP_000087.1	GI #: 4557485
Immunogen Sequence Position: 1-1065	Length (aa): 1065
Mol. Weight (Da): 122205	



Linear Protein Map with Immunogenic Epitope Marked (sequence source from above GI#)

**Source:** Chicken

**Purity:** Immunoaffinity Purified

**Clonality:** Polyclonal

**Crossreactivity:** Human

**Format:** Phosphate-Buffered Saline. No preservatives added.

**Storage:** 4°C for short term (weeks) and -20°C for long term. Avoid frequent freeze and thaw.

**Stability:** 6-12 months at -20°C.

**Shipping:** Products may be shipped on ice pack.

**Precautions:** This product is for *in vitro* research use only. Not for use in diagnostic or therapeutic procedures.

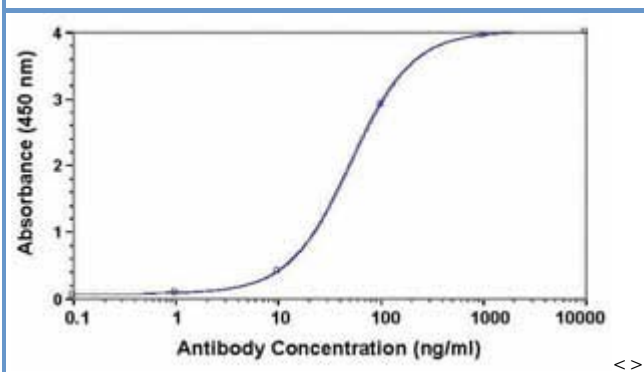
**Important Notes:** During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

## APPLICATIONS:

ELISA, Western Blot	Tested
ICC, IHC	Not Tested

## TESTING: (secondary reagents and protocols)

**ELISA:** Human plasma ceruloplasmin protein as test antigen. Affi-pure IgY as primary antibody (serial dilution), and Rabbit anti-IgY-HRP as 2nd antibody.



**Western Blot:** Human plasma ceruloplasmin as antigen. Affinity-purified IgY dilution: 1:2000, Goat anti-IgY-HRP dilution: 1:1000. Colorimetric method for signal development.

## TARGET DESCRIPTION:

**FUNCTION:** Ceruloplasmin is a blue, copper-binding (6-7 atoms per molecule) glycoprotein found in plasma. Four possible functions are ferroxidase activity, amine oxidase activity, copper transport and homeostasis, and superoxide dismutase activity.

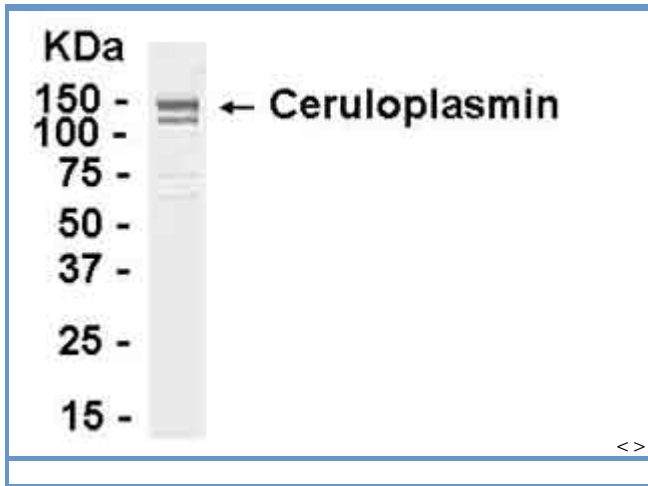
**DISEASE:** Ceruloplasmin levels are decreased in Wilson disease, in which copper cannot be incorporated into ceruloplasmin in liver because of defects in the copper-transporting ATPase 2.

OMIM: 117700; gene. [NCBI / EBI]  
604290; phenotype. [NCBI / EBI]

## CATEGORIES RELATED TO TARGET PROTEIN:

**TISSUES:** Plasma, Blood Cells, Erythrocyte, Urine, Intracellular, Erythroid Cells, Heart, Leukocyte, Tumor Cells, Cytoplasm, Hair, Urinary Tract, Spleen, Hepatocytes, Plasma Membrane, Eye, Gastrointestinal Tract, Extracellular Fluid, Intestine, Cerebrospinal Fluid  
more... Lymphocytes, Cell Surface, Neutrophils, Blood Vessels, Myocardium, Heart Muscle, Cardiac Muscle, Lungs, Forebrain, Liver Tumor, Peripheral Blood, Liver Cancer, Fetal Serum, Lymphoma, Granulocyte, Artery, Monocytes, Thyroid, Placenta, Macrophage, Fetal Liver, Mucosa, Chromosomes, Bone Marrow, Phospholipids, Synovium, Platelet, Anterior Pituitary, Fibroblast, Fetal Blood, Umbilical Cord Blood, Synovial Fluid, Small Intestine, Nucleus, Hypothalamus, Cornea, Neuron, Telencephalon, Diencephalon, Aorta, Pancreas, Gonad, Intestinal Mucosa, Embryonic Liver, Retina, Testis, T-Cell, Lysosome, Brain Cortex, Amniotic Fluid, Lung Cancer, Brain Stem, Golgi Apparatus, Intestinal Epithelium, Cerebellum, Molar, Mammary Tumor, Thymus, Uterus, Neonatal Brain, Glial Cell, Vein, Gastrocnemius, Cervical, Endoplasmic Reticulum, Astrocytes, Adrenal Gland, Soleus Muscle, Skeletal Muscle, Ovary

**PROTEIN FUNCTIONS:** Protein Byiosynthesis, Acute-Phase Proteins, Serum Globulins, Immunoglobulins, Glutathione Metabolism, Blood Coagulation Factors, Esterases, Serpins, Peptide Hydrolases, Alcohol Oxidoreductases, Cytokines, Tetrapyrroles, Peptide Hormones, Ascorbate Metabolism, Antigens, Surface, Retinol Metabolism, Insulin, Lipoproteins, Ldl, Acid Anhydride Hydrolases, Tumor Markers, Biological  
more... Fatty Acid Metabolism, Complement 3, C21-Steroid Hormone Metabolism, Purine Metabolism, Tyrosine Metabolism, Alanine And Aspartate Metabolism, Membrane Glycoproteins, Nitrogen Metabolism, Interleukins, Histidine Metabolism, Pituitary Hormones, Cysteine Metabolism, Phosphotransferases, Lipoproteins, Hdl, Sulfur Metabolism, Pancreatic Hormones, Lysine Degradation, Receptors, Immunologic, Neuroectodermal Tumors, Pyrimidine Metabolism, Receptors, Peptide, Phenylalanine Metabolism, Cell Division, Antigens, Neoplasm, Protein Export, Gonadotropins, Tryptophan Metabolism, Tumor Necrosis Factors, Galactose Metabolism, Antigens, Differentiation, Cell Adhesion Molecules (Cams), Glycosaminoglycan Degradation, Glutamate Metabolism, Alkyl And Aryl Transferases, Biosynthesis Of Steroids, Androgen And Estrogen Metabolism, Ribosome, Nucleotide Sugars Metabolism, Glycosyltransferases, Neoplasms, Neuroepithelial, Lipopolysaccharide Biosynthesis, Hematopoietic Cell Growth Factors, Colony-Stimulating Factors, Placental Hormones, Aminohydrolases, Fatty Acid Biosynthesis, Pyruvate Metabolism, Translation Factors, Chemotaxis, Muscle Proteins, Starch And Sucrose Metabolism, Lysine Biosynthesis, Oncogene Proteins, Riboflavin Metabolism, Ligases, Ion Channels, Terpenoid Biosynthesis, Vitamin B6 Metabolism,



Gastrointestinal Hormones, Mycotoxins, Lipoproteins, Vldl, Receptors, Steroid, One-Carbon Group Transferases, Inositol Metabolism, Complement 1, Calcium-Binding Proteins, Angiogenic Proteins, Chemokines, G-Protein Coupled Receptors, Glycosphingolipid Metabolism

**DISEASES:** Neoplasm, Benign Tumor, Pregnancy, Blood Diseases, Mental Disorders, Autoimmune Disease, Cirrhosis, Lung Diseases, Hepatitis, Arthritis, Joint Diseases, Connective Tissue Diseases, Rheumatic Diseases, Heart Disease, Diabetes Mellitus, Fungi, Eye Diseases, Bilirubin, Ischaemic Heart Disease, Lymphadenopathy

more... Viral Diseases, Liver Cancer, Lymphoma, Adenocarcinoma, Myocardial Infarction, Dementia, Schizophrenia, Hematological, Bone Diseases, Leukemia, Hemolytic Anemia, Jaundice, Allergy, Depression, Birth Defects, Arteriosclerosis, Escherichia Coli, Coronary Heart Disease, Hemochromatosis, Hodgkin's Disease, Hodgkin's Lymphoma, Chronic Hepatitis, Acute Hepatitis, Hypoxia, Syndrome X, Retinopathy, Type 2 Diabetes, Hemodialysis, Pneumonia, Neurodegenerative, Germ Cell Tumors, Parkinson's, Kidney Failure, Primary Biliary Cirrhosis, Parkinson's Disease, Alzheimer's Disease, Alzheimer's Disease, Endocrine, Oedema, Immune Deficiency, High Blood Pressure, Cerebrovascular Disease, Dystonia, Breast Cancer, Lung Cancer, Asthma, Hyperlipidemia, Neck Cancer, Hepatitis G, Coagulation Disorders, Breast Tumor, Chronic Renal Insufficiency, Degenerative Joint Disease, Lung Tumor, Sepsis, Menopause, Acute Myocardial Infarction, Diarrhea, Meningitis, Metastasis, Encephalopathy, Respiratory Diseases, Hyperglycaemia, Insulin Dependent Diabetes Mellitus, Multiple Sclerosis, Obesity, Pseudomonas, Influenza A, Septicaemia, Respiratory Distress Syndrome

#### BACKGROUND REFERENCES:

- [1] Martin,F., et al. Copper-dependent activation of hypoxia-i...
- [2] Platonova,N.A., et al. The revelation of expressing region in t...
- [3] Giurgea,N., et al. Ceruloplasmin - acute-phase reactant or ...
- [4] Hochstrasser,H., et al. Ceruloplasmin gene variations and substa...
- [5] Narita,T., et al. Parallel increase in urinary excretion r...

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