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Anti-Copper Transporting ATPase 1 Antibody [S60-4]

Mouse Anti-Human Copper Transporting ATPase 1
Monoclonal IgG2b
Catalog No. SMC-398



Discovery through partnership | Excellence through quality

Overview

Product Name

Copper Transporting ATPase 1 Antibody

Description

Mouse Anti-Human Copper Transporting ATPase 1 Monoclonal IgG2b

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, IP

Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Synthetic peptide amino acids 42-61 (cytoplasmic C-terminus) of human Copper- transporting ATPase1

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S60-4

Isotype

IgG2b

Specificity

Detects ~180kDa in rat brain membrane preparations.

Cite This Product

Mouse Anti-Human ATP7A Monoclonal, Clone S60-4 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-398)

Certificate Of Analysis

1 µg/ml of SMC-398 was sufficient for detection of Copper-transporting ATPase1 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

ATP7A Antibody, ATP 7A Antibody, ATPase Cu transporting Antibody, DSMAX Antibody, FLJ17790 Antibody, MC1 Antibody, MC 1 Antibody, MK Antibody, MNK Antibody, OHS Antibody, Copper pump 1 Antibody, Menke Antibody, OTTHUMP0000062077 Antibody, SMAX3 Antibody, ATPase copper transporting alpha polypeptide Antibody, ATPase Cu⁺⁺ transporting alpha polypeptide (Menkes syndrome) Antibody, Copper transporting ATPase 1 Antibody, Cu⁺⁺ transporting P type ATPase Antibody, Menkes disease associated protein Antibody, Menkes syndrome Antibody

Research Areas

Cell Signaling, Neurodegeneration, Neuroscience

Cellular Localization

Cytoplasm, Cell membrane, Endoplasmic Reticulum, Golgi apparatus, Trans-golgi network membrane

Accession Number

NP_000043.3

Gene ID

538

Swiss Prot

Q04656

Scientific Background

The copper efflux transporters ATP7A and ATP7B sequester intracellular copper into the vesicular secretory pathway for export from the cell. ATP7A (also known as Copper-transporting ATPase 1) functions as a transmembrane copper-trans locating P-type ATPase and plays a vital role in systemic copper absorption in the gut and copper reabsorption in the kidney. Polarized epithelial cells such as Madin-Darby canine kidney cells are a physiologically relevant model for systemic copper absorption and reabsorption in vivo. Although ATP7A is not detectable in most normal tissues, it is expressed in a considerable fraction of many common tumor types. Increased expression of ATP7A renders cells resistant to cisplatin and carboplatin. Mutations in the ATP7A

gene result in Menkes disease, which is fatal in early childhood. Mutations in the ATP7B gene lead to the autosomal recessive disorder, Wilson disease, characterized by neurological symptoms and hepatic damage.

References

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Product Images

Currently there are no images for this product

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.