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# Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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# Anti-Copper Transporting ATPase 2 Antibody [S62-29]

Mouse Anti-Human Copper Transporting ATPase 2 Monoclonal IgG1
Catalog No. SMC-399

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

## Overview

**Product Name**

Copper Transporting ATPase 2 Antibody

**Description**

Mouse Anti-Human Copper Transporting ATPase 2 Monoclonal IgG1

**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 3-21 (cytoplasmic N-terminus) of human Copper-transporting ATPase2

**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**

-20ºC

**Shipping Temperature**

Blue Ice or 4ºC

**Purification**

Protein G Purified

**Clonality**

Monoclonal

**Clone Number**

S62-29

**Isotype**

IgG1

**Specificity**

Detects ~160kDa in rat brain membrane preparations.

**Cite This Product**

Mouse Anti-Human ATP7B Monoclonal, Clone S62-29 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-399)

**Certificate Of Analysis**

1 µg/ml of SMC-399 was sufficient for detection of Copper-transporting ATPase2 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat IgG:HRP as the secondary antibody.

## Biological Description

**Alternative Names**

ATP7B Antibody, ATPase Cu++ transporting beta polypeptide Antibody, ATPase Cu(2+) transporting beta polypeptide Antibody, Copper pump 2 Antibody, Copper transporting ATPase 2 Antibody, PWD Antibody, Toxic milk Antibody, tx Antibody, WC1 Antibody, WD Antibody, Wilson disease associated protein Antibody, WND Antibody, WND/140 kDa Antibody

**Research Areas**

Cell Signaling, Ion Channels, Neuroscience

**Cellular Localization**

Cytoplasm, Golgi apparatus, Mitochondrion, Trans-golgi network membrane

**Accession Number**

NP_000044.2

**Gene ID**

540

**Swiss Prot**

B7ZLR4

**Scientific Background**

The copper efflux transporters ATP7A and ATP7B sequester intracellular copper into the vesicular secretory pathway for export from the cell. ATP7b is an important protein for copper transport and elimination of excess copper from the body. ATP7b transports metals in and out of cells using ATP. There are 3 known isoforms of the ATP7b gene; A is found in the liver, kidney, and brain, the shorter form B is found in brain tissue, and the third isoform, known as WND/140 KDA is found in mitochondria. Mutations in the ATP7b gene can cause Wilson's disease, an inherited disorder causing copper poisoning in the brain and liver, characterized by neurological symptoms and hepatic damage.

**References**

1. Tanzi R.E., et al. (1993) Nature Genetics. 5: 344-350.
2. Ghr/nlm.gov/gene/ATP7B

## 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.