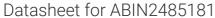
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anti-ATP7A antibody (AA 42-61) (Atto 390)





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Quantity:	100 μg	
Target:	ATP7A	
Binding Specificity:	AA 42-61	
Reactivity:	Human	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This ATP7A antibody is conjugated to Atto 390	
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC)	

Product Details

Immunogen:	Synthetic peptide amino acids 42-61 (cytoplasmic C-terminus) of human Copper- transporting ATPase1
Clone:	S60-4
Isotype:	lgG2b
Specificity:	Detects ~180 kDa in rat brain membrane preparations.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

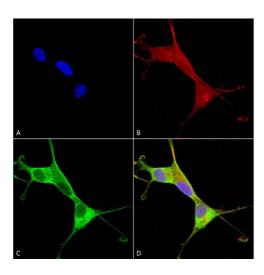
Target Details

Target:	ATP7A	
Alternative Name:	ATP7A (ATP7A Products)	
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.	
Gene ID:	538	
NCBI Accession:	NP_000043	
UniProt:	Q04656	
Pathways:	Transition Metal Ion Homeostasis, Ribonucleoside Biosynthetic Process	
Application Details		
Application Notes:	• WB (1:500)	
	• ICC/IF (1:100)	
	optimal dilutions for assays should be determined by the user.	
Comment:	1 μg/ml of ABIN2485181 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.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated	

Handling

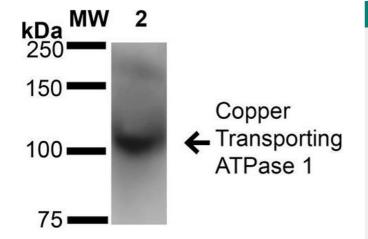
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



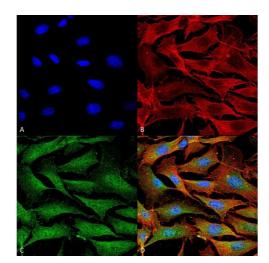
Immunocytochemistry Image

Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Copper Transporting ATPase 1 Monoclonal Antibody, Clone S60-4 (ABIN2485181). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Copper Transporting **ATPase** Monoclonal Antibody (ABIN2485181) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Copper Transporting ATPase 1 Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat Brain Membrane showing detection of ~180 kDa Copper Transporting ATPase 1 protein using Mouse Anti-Copper Transporting ATPase 1 Monoclonal Antibody, Clone S60-4 . Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat Brain Membrane cell lysate. Load: 20 µg. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Copper Transporting ATPase 1 Monoclonal Antibody at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:100 for 60 min at RT. Color Development: ECL



solution for 6 min in RT. Predicted/Observed Size: \sim 180 kDa. Other Band(s): 250kDa.

Immunofluorescence (fixed cells)

Image Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Copper Transporting ATPase 1 Monoclonal Antibody, Clone S60-4. Tissue: NIH 3T3 (Mouse Fibroblast cell line). Species: Mouse. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Copper Transporting ATPase 1 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Endoplasmic Reticulum, Cytoplasm, Golgi Apparatus, Trans-Golgi Network Membrane, Cell Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Copper Transporting ATPase 1 Antibody (D) Composite.

Please check the product details page for more images. Overall 4 images are available for ABIN2485181.