Anti-ATP7B antibody

Description	Rabbit polyclonal to ATP7B.

Model	STJ91777
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC
Immunogen	Synthesized peptide derived from human ATP7B
Immunogen Region	130-210 aa, N-terminal
Gene ID	540
Gene Symbol	ATP7B
Dilution range	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:5000
Specificity	ATP7B Polyclonal Antibody detects endogenous levels of ATP7B protein.
Tissue Specificity	Most abundant in liver and kidney and also found in brain. Isoform 2 is expressed in brain but not in liver. The cleaved form WND/140 kDa is found in liver cell lines and other tissues.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Copper-transporting ATPase 2 Copper pump 2 Wilson disease-associated protein WND/140 kDa
Molecular Weight	157.334 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:870OMIM:277900
Alternative Names	Copper-transporting ATPase 2 Copper pump 2 Wilson disease-associated protein WND/140 kDa
Function	Copper ion transmembrane transporter involved in the export of copper out of the cells, such as the efflux of hepatic copper into the bile.
Sequence and Domain Family	Each HMA domain can bind a copper ion, they are tightly packed and closely interact with each other. Wild-type ATP7B can usually be loaded with an average 5.5 copper atoms per molecule.
Cellular Localization	Golgi apparatus, trans-Golgi network membrane Late endosome. Predominantly found in the trans-Golgi network (TGN). Localized in the trans-Golgi network under low copper conditions, redistributes to cytoplasmic vesicles when cells are exposed to elevated copper levels, and then recycles back to the trans-Golgi network when copper is removed . Not redistributed to the plasma membrane in response to elevated copper levels. Isoform 1: Golgi apparatus membrane Isoform 2: Cytoplasm WND/140 kDa: Mitochondrion
Post-translational Modifications	Isoform 1 may be proteolytically cleaved at the N-terminus to produce the WND/140 kDa form.