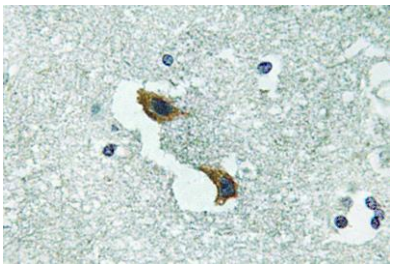
ATP7A rabbit pAb

Cat#: orb769501 (Manual)

For research use only. Not intended for diagnostic use.

Product Name	ATP7A rabbit pAb
Host species	Rabbit
Applications	IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human ATP7A. AA range:591-640
Specificity	ATP7A Polyclonal Antibody detects endogenous levels of ATP7A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Copper-transporting ATPase 1
Gene Name	ATP7A
Cellular localization	Golgi apparatus, trans-Golgi network membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein . Melanosome membrane ; Multi-pass membrane protein . Early endosome membrane ; Multi-pass membrane protein . Cell projection, axon . Cell projection, dendrite . Cell junction, synapse, postsynaptic density . Cycles constitutively between the TGN and the plasma membrane (PubMed:9147644). Predominantly found in the TGN and relocalized to the plasma membrane in response to elevated copper levels. Targeting into melanosomes is regulated by BLOC-1 complex (By similarity). In response to glutamate, translocates to neuron processes with a minor fraction at extrasynaptic sites (By similarity). .; [Isoform 3]: Cytoplasm, cytosol .; [Isoform 5]: Endoplasmic

	reticulum .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	538
Human Swiss-Prot Number	Q04656
Alternative Names	ATP7A; MC1; MNK; Copper-transporting ATPase 1; Copper pump 1; Menkes disease-associated protein
Background	ATPase copper transporting alpha(ATP7A) Homo sapiens This gene encodes a transmembrane protein that functions in copper transport across membranes. This protein is localized to the trans Golgi network, where it is predicted to supply copper to copper-dependent enzymes in the secretory pathway. It relocalizes to the plasma membrane under conditions of elevated extracellular copper, and functions in the efflux of copper from cells. Mutations in this gene are associated with Menkes disease, X-linked distal spinal muscular atrophy, and occipital horn syndrome. Alternatively-spliced transcript variants have been observed. [provided by RefSeq, Aug 2013],



Immunohistochemistry analysis of ATP7A antibody in paraffin-embedded human brain tissue.

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