ATP7B polyclonal antibody

Catalog # PAB12478 Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ATP7B.
Immunogen	A synthetic peptide corresponding to C-terminus of human ATP7B.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is specific to ATPb7.
Form	Liquid
Recommend Usage	Immunocytochemistry/Immunofluorescence (1:10-1:2000) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris-citrate/phosphate buffer, pH 7.0-8.0 (0.09% sodium azide).
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. This antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot. By WB, this antibody recognizes a band at 165 kDa, representing ATP7b. This antibody also recognizes a band at ~220 kDa. This antibody may work on endogenous protein in immunohistochemistry, but it has onl y been tested on transfected ovarian carcinoma cells at a 1:500 dilution. Disclaimer note: The observ ed molecular weight of the protein may vary from the listed predicted molecular weight due to post tra nslational modifications, post translation cleavages, relative charges, and other experimental factors.

Applications

- Western Blot
- Immunocytochemistry

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Gene Info — ATP7B

Entrez GeneID	540
Protein Accession#	P35670
Gene Name	ATP7B
Gene Alias	PWD, WC1, WD, WND
Gene Description	ATPase, Cu++ transporting, beta polypeptide
Omim ID	277900 606882
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the P-type cation transport ATPase family and encodes a protein with several membrane-spanning domains, an ATPase consensus sequence, a hinge domain, a phosphorylation site, and at least 2 putative copper-binding sites. This protein functions as a monomer, exporting copper out of the cells, such as the efflux of hepatic copper into the bile. Alternate transcriptional splice variants, encoding different isoforms with distinct cellular localizations, have been characterized. Mutations in this gene have been associated with Wilson disease (WD). [provided by RefSeq
Other Designations	ATPase, Cu(2+)- transporting, beta polypeptide|OTTHUMP00000040880|Wilson disease-associated protein|copper pump 2|copper-transporting ATPase 2

Publication Reference

- NH2-terminal signals in ATP7B Cu-ATPase mediate its Cu-dependent anterograde traffic in polarized hepatic cells.

  Guo Y, Nyasae L, Braiterman LT, Hubbard AL.

  American Journal of Physiology. Gastrointestinal and Liver Physiology 2005 Nov; 289(5):G904.

  Application: IF, WB-Tr, Human, WIF-B cells

Disease

- Chromosome Aberrations
- Genetic Predisposition to Disease
- Hepatolenticular Degeneration
- Kidney Failure

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- Liver Failure
- Mental Disorders
- Motor Skills

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