

ATP7B Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6504b**Specification**

ATP7B Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [P35670](#)

ATP7B Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 540

Other Names

Copper-transporting ATPase 2, Copper pump 2, Wilson disease-associated protein, WND/140 kDa, ATP7B, PWD, WC1, WND

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6504b](/products/AP6504b) was selected from the C-term region of human ATP7B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ATP7B Antibody (C-term) Blocking Peptide - Protein Information

Name ATP7B

Synonyms PWD, WC1, WND

Function

Copper ion transmembrane transporter involved in the export of copper out of the cells. It is involved in copper homeostasis in the liver, where it ensures the efflux of copper from hepatocytes into the bile in response to copper overload.

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Late endosome Note=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

(PubMed:10942420). [Isoform 2]: Cytoplasm

Tissue Location

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

ATP7B Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ATP7B Antibody (C-term) Blocking Peptide - Images**ATP7B Antibody (C-term) Blocking Peptide - Background**

ATP7B is a member of the P-type cation transport ATPase family and 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.

ATP7B Antibody (C-term) Blocking Peptide - References

Martinez-Balibrea,E., Int. J. Cancer 124 (12), 2905-2910 (2009)