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ATP7B Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ATP7B.
Catalog # AT1244a

Product Information

Application	WB, E
Primary Accession	P35670
Other Accession	NM_000053
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3E11
Calculated MW	157263

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	ATP7B (NP_000044, 1372 a.a. ~ 1465 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ATP7B Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

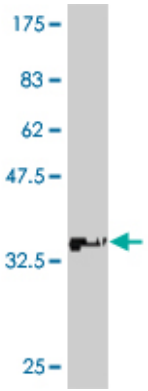
Background

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).

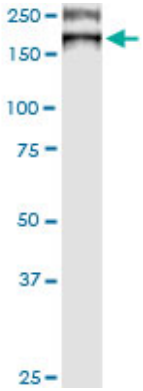
References

1.Characterization of Sandwich-Cultured Hepatocytes as an In Vitro Model to Assess the Hepatobiliary Disposition of Copper.Ansede JH, Wright MR, St Claire RL, Hart RW, Gefroh HA, Brouwer KR.Drug Metab Dispos. 2009 May;37(5):969-76. Epub 2009 Feb 23.

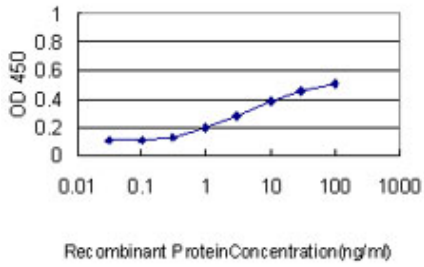
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.08 KDa) .



ATP7B monoclonal antibody (M01), clone 3E10. Western Blot analysis of ATP7B expression in human colon.



Detection limit for recombinant GST tagged ATP7B is approximately 0.3ng/ml as a capture antibody.