

**ATP7B Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant ATP7B.****Catalog # AT1244a****Specification**

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**ATP7B Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P35670</a>
Other Accession	<a href="#">NM_000053</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	157263

**ATP7B Antibody (monoclonal) (M01) - 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.

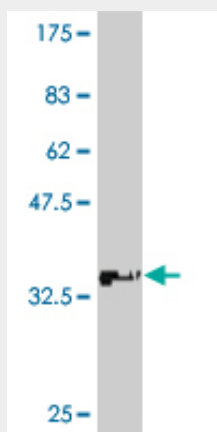
**ATP7B Antibody (monoclonal) (M01) - Protocols**

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

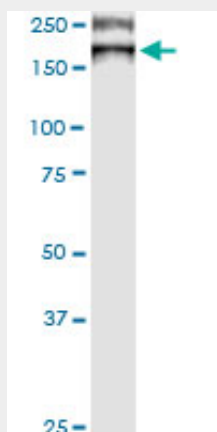
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

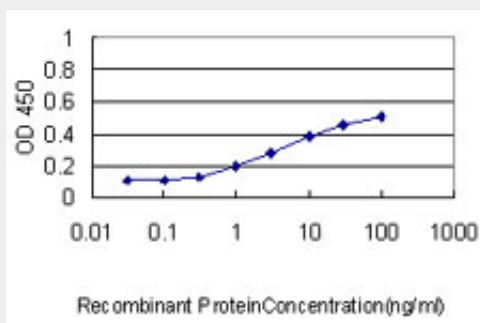
### ATP7B Antibody (monoclonal) (M01) - Images



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.

**ATP7B Antibody (monoclonal) (M01) - 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).

**ATP7B Antibody (monoclonal) (M01) - 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.