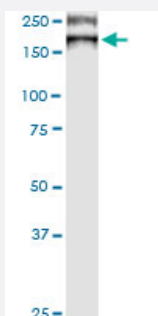


# ATP7B monoclonal antibody (M01), clone 3E10

Catalog # H00000540-M01

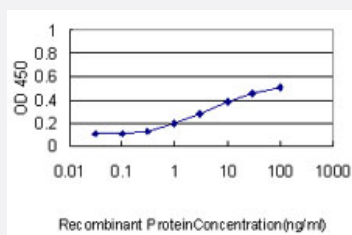
Size 100 ug

## Applications



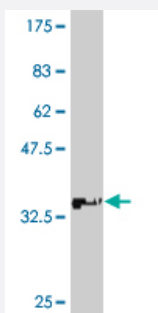
### Western Blot (Tissue lysate)

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



### Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (36.08 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a partial recombinant ATP7B.

|                                      |  |
|--------------------------------------|--|
| <b>Immunogen</b>                     | ATP7B (NP_000044, 1372 a.a. ~ 1465 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| <b>Sequence</b>                      | QLKCYKKPDLERYEAQAHGHMKPLTASQVSVHIGMDDRWRDSPRATPWDQVSVSQVSLSSLT<br>SDKPSRHSAAADDDGDKWSLLLNGRDEEQYI                    |
| <b>Host</b>                          | Mouse  |
| <b>Reactivity</b>                    | Human  |
| <b>Interspecies Antigen Sequence</b> | Mouse (85); Rat (84)   |
| <b>Isotype</b>                       | IgG1 Kappa   |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (36.08 KDa) .             |
| <b>Storage Buffer</b>                | In 1x PBS, pH 7.4  |
| <b>Storage Instruction</b>           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.   |

## Applications

- Western Blot (Tissue lysate)

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

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

## Gene Info — ATP7B

Entrez GeneID [540](#)

|                     |   |
|---------------------|---|
| GeneBank Accession# | <a href="#">NM_000053</a>   |
| Protein Accession#  | <a href="#">NP_000044</a>   |
| Gene Name           | ATP7B   |
| Gene Alias          | PWD, WC1, WD, WND   |
| Gene Description    | ATPase, Cu <sup>++</sup> transporting, beta polypeptide   |
| Omim ID             | <a href="#">277900 606882</a>   |
| Gene Ontology       | <a href="#">Hyperlink</a>   |
| 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

- [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 Metabolism and Disposition 2009 May; 37(5):969.

Application: WB, Rat, dog, human, Hepatocytes

## Disease

- [Chromosome Aberrations](#)
- [Genetic Predisposition to Disease](#)
- [Hepatolenticular Degeneration](#)
- [Kidney Failure](#)
- [Liver Failure](#)

- [Mental Disorders](#)
- [Motor Skills](#)