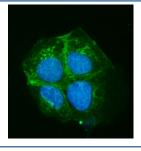


# ATP7B Antibody (RQ6944)

Catalog No.	Formulation	Size
RQ6944	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P35670
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1 ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This ATP7B antibody is available for research use only.



Immunofluorescent staining of FFPE human Caco-2 cells with ATP7B antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HepG2, 2) rat liver and 3) mouse kidney lysate with ATP7B antibody. Expected molecular weight: 140-157 kDa.

### **Description**

ATPase, Cu++ transporting, beta polypeptide (Wilson disease) protein, also called ATP7B, is an ATPase that transports copper. 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 two putative copper-binding sites. ATP7B is mapped to 13q14.3. This protein functions as a monomer, exporting copper out of the cells. When copper levels are in excess, ATP7B redistributes to a vesicular compartment near the biliary canalicular membranes for elimination of excess copper into bile, and it is transported along liver cell microtubules via interaction with the p62 dynactin subunit.

#### **Application Notes**

Optimal dilution of the ATP7B antibody should be determined by the researcher.

#### **Immunogen**

Recombinant human ATP7B protein (amino acids Q241-K495) was used as the immunogen for the ATP7B antibody.

#### **Storage**

After reconstitution, the ATP7B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.