abcam

Product datasheet

Anti-ATP7b antibody - C-terminal ab217299

1 Image

Overview

Product name	Anti-ATP7b antibody - C-terminal
Description	Rabbit polyclonal to ATP7b - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Rat **Predicted to work with:** Mouse, Human
Immunogen	Synthetic peptide within Human ATP7b aa 1410-1460 (C terminal) conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: P35670
Positive control	Rat brain tissue

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 1% BSA, 50% Glycerol Aqueous buffered solution
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab217299** in the following tested applications.

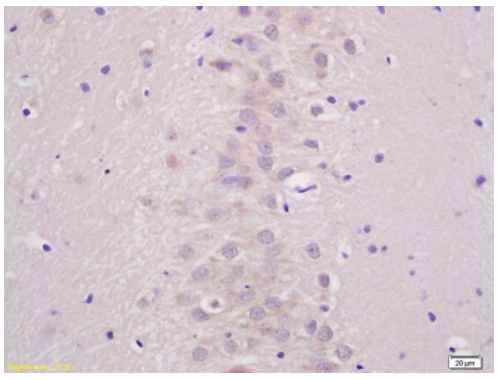
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500.

Target

Function	Involved in the export of copper out of the cells, such as the efflux of hepatic copper into the bile.
Tissue specificity	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.
Involvement in disease	Defects in ATP7B are the cause of Wilson disease (WD) [MIM:277900]. WD is an autosomal recessive disorder of copper metabolism in which copper cannot be incorporated into ceruloplasmin in liver, and cannot be excreted from the liver into the bile. Copper accumulates in the liver and subsequently in the brain and kidney. The disease is characterized by neurologic manifestations and signs of cirrhosis.
Sequence similarities	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IB subfamily. Contains 6 HMA domains.
Post-translational modifications	Isoform 1 may be proteolytically cleaved at the N-terminus to produce the WND/140 kDa form.
Cellular localization	Cytoplasm; Mitochondrion and Golgi apparatus > trans-Golgi network membrane. Predominantly found in the trans-Golgi network (TGN). Not redistributed to the plasma membrane in response to elevated copper levels.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP7b antibody - C-terminal (ab217299)

Immunohistochemical analysis of formalin-fixed and paraffin-embedded rat brain tissue labeling ATP7b with ab217299 at 1/200 dilution, followed by conjugation to the secondary antibody and DAB staining.

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