

Anti-ATP7B Antibody (4W208)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4W208
Purification:	Affinity-chromatography

Applications

1. IHC image of TMAH-00094 diluted at 1:50 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.19% DAB.
2. IHC image of TMAH-00094 diluted at 1:50 and staining in paraffin-embedded human ovarian cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.19% DAB.
- Verified Activity:
3. Immunofluorescence staining of HepG2 with TMAH-00094 at 1:20, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 494-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).
4. Overlay Peak curve showing HepG2 cells stained with TMAH-00094 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.
- Application: ELISA, IHC, IF, FCM
- Recommended IHC:1:50-1:200; IF:1:50-1:200; FCM:1:50-1:200.

Properties

- Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
- Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human ATP7B
Antigen Species:	Human
Gene ID:	540
Uniprot ID:	P35670
Synonyms:	ATPase;Toxic milk;WND/140 kDa;Cu ⁺⁺ transporting;Copper transporting ATPase 2;WD;WND;tx;WC1;Wilson disease associated protein;beta polypeptide;ATP7B;Cu(2+) transporting;PWD;Copper pump 2
Biology Area:	Metabolism, Signal transduction

Research Background

Copper ion transmembrane transporter involved in the export of copper out of the cells. It is involved in copper homeostasis in the liver, where it ensures the efflux of copper from hepatocytes into the bile in response to copper overload.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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