

Anti-ATP7A Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 163 kDa.
Purification:	Protein A purified

Applications

1. Blank control: U-2OS.

Primary Antibody (green line): Rabbit Anti-ATP7A antibody (TMAB-00170)

Dilution: 2 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-PE

Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

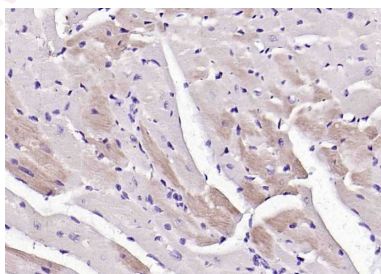
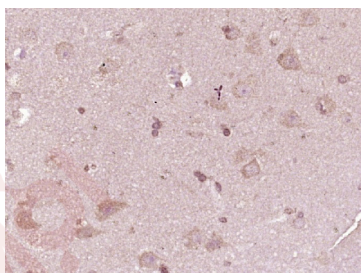
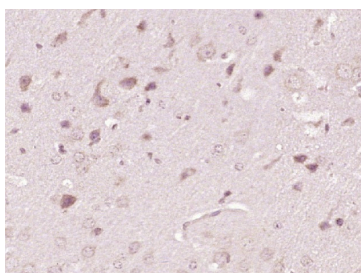
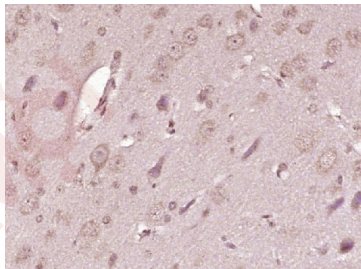
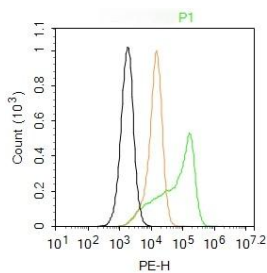
2. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (ATP7A) Polyclonal Antibody, Unconjugated (TMAB-00170) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

3. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (ATP7A) Polyclonal Antibody, Unconjugated (TMAB-00170) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (ATP7A) Polyclonal Antibody, Unconjugated (TMAB-00170) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded (mouse heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (P7A) Polyclonal Antibody, Unconjugated (TMAB-00170) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity:



Application: FCM,IF,IHC-Fr,IHC-P

Recommended IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2ug/Test

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:	KLH conjugated synthetic peptide: human ATP7A
Antigen Species:	Human
Gene ID:	538
Uniprot ID:	Q04656
Synonyms:	ATPase Cu ⁺⁺ transporting alpha polypeptide;MNK;ATP7A;Cu ⁺⁺ transporting P type ATPase;MC1; Menkes disease-associated protein;ATPase Cu ⁺⁺ transporting alpha polypeptide(Menkes syndrome);ATPase Copper Transporting alpha Polypeptide;ATP 7A;Copper pump 1;MC 1;MK; OHS;Copper transporting ATPase 1;Menkes syndrome
Biology Area:	Vitamins / minerals,Neurodegenerative disease,ATPases,Vitamins / Minerals

Research Background

Copper-transporting ATPase 1 is an integral membrane protein cycling constitutively between the trans-golgi network and the plasma membrane. It may supply copper to copper-requiring proteins within the secretory pathway, when localized in the trans-golgi network. Under conditions of elevated extracellular copper, it relocalized to the plasma membrane where it functions in the efflux of copper from cells. Defects in ATP7A are the cause of Menkes syndrome; also known as kinky hair disease, an X-linked recessive disorder.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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