

ATP1A2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5828c**Specification**

ATP1A2 Antibody (Center) - Product Information

Application	IF, WB, IHC-P, FC,E
Primary Accession	P50993
Other Accession	P06686 , D2WKD8 , Q6PIE5 , A2VDL6 , NP_000693.1
Reactivity	Human, Mouse
Predicted	Bovine, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	451-479

ATP1A2 Antibody (Center) - Additional Information**Gene ID** 477**Other Names**

Sodium/potassium-transporting ATPase subunit alpha-2, Na(+)/K(+) ATPase alpha-2 subunit, Sodium pump subunit alpha-2, ATP1A2, KIAA0778

Target/Specificity

This ATP1A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 451-479 amino acids from the Central region of human ATP1A2.

Dilution

IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ATP1A2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP1A2 Antibody (Center) - Protein Information

Name ATP1A2

Synonyms KIAA0778

Function This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium, providing the energy for active transport of various nutrients.

Cellular Location

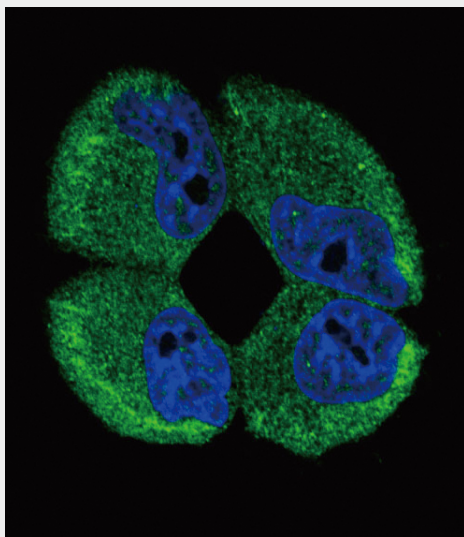
Membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

ATP1A2 Antibody (Center) - Protocols

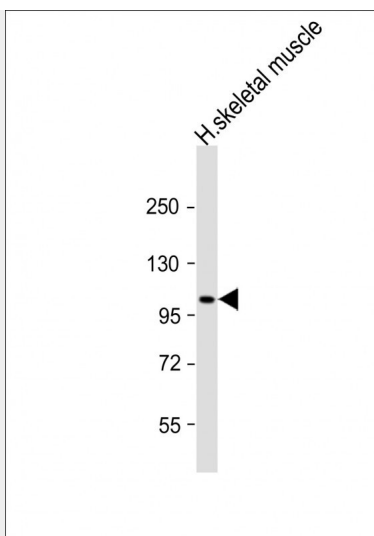
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

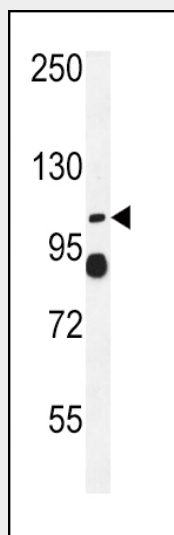
ATP1A2 Antibody (Center) - Images



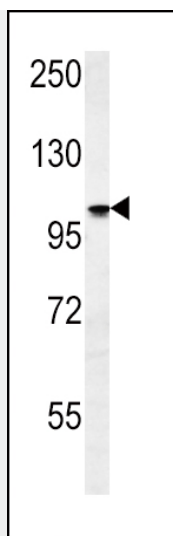
Confocal immunofluorescent analysis of ATP1A2 Antibody (Center)(Cat. #AP5828c) with MCF-7 cell followed by Alexa Fluor488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



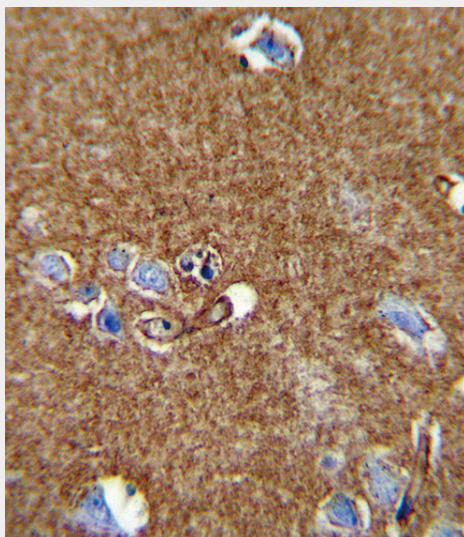
Anti-ATP1A2 Antibody (Center) at 1:2000 dilution + human skeletal muscle lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated
at 1/10000 dilution. Predicted band size : 112 kDa Blocking/Dilution buffer: 5% NFD/MTBST.



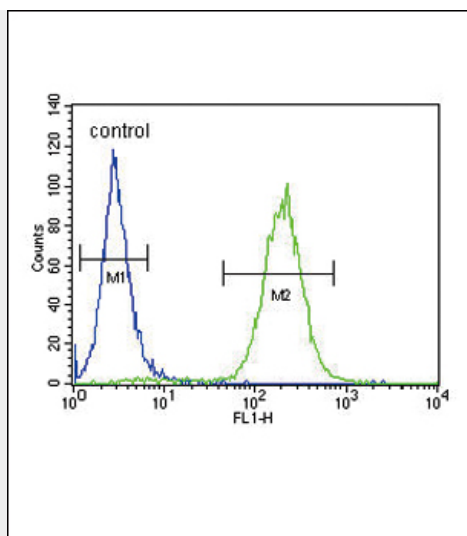
ATP1A2 Antibody (Center) (Cat. #AP5828c) western blot analysis in mouse heart tissue lysates
(15ug/lane). This demonstrates the ATP1A2 antibody detected ATP1A2 protein (arrow).



ATP1A2 Antibody (Center) (Cat. #AP5828c) western blot analysis in MCF-7 cell line lysates (15ug/lane). This demonstrates the ATP1A2 antibody detected ATP1A2 protein (arrow).



ATP1A2 Antibody (Center) (Cat. #AP5828c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATP1A2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



ATP1A2 Antibody (Center) (Cat. #AP5828c) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ATP1A2 Antibody (Center) - Citations

- [Genetic Deletion of TREK-1 or TWIK-1/TREK-1 Potassium Channels does not Alter the Basic Electrophysiological Properties of Mature Hippocampal Astrocytes In Situ.](#)
- [mGluR3 Activation Recruits Cytoplasmic TWIK-1 Channels to Membrane that Enhances Ammonium Uptake in Hippocampal Astrocytes.](#)