10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ATP1A2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5828c

Specification

ATP1A2 Antibody (Center) - Product Information

Application	**WB, FC, IHC-P, IF,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
WB~~1:2000
FC~~1:10~50
IHC-P~~1:10~50
IF~~1:10~50
E~~Use at an assay dependent concentration.

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

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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.

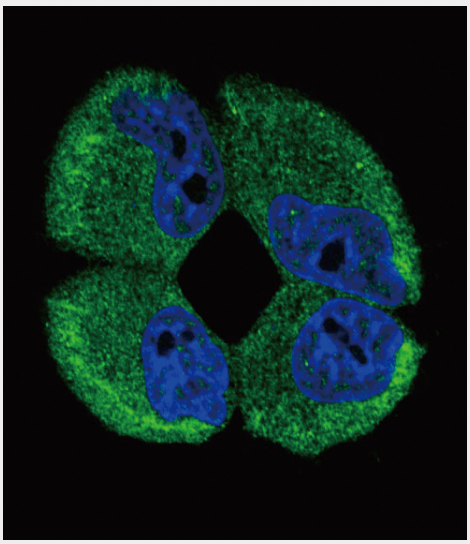
Cellular Location
Membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

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 Cytomety
- 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 lgG (green). DAPI was used to stain the cell nuclear (blue).

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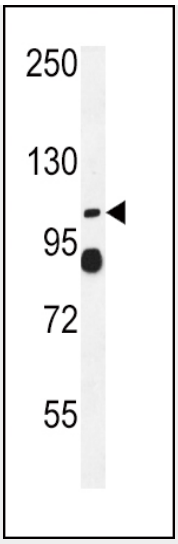
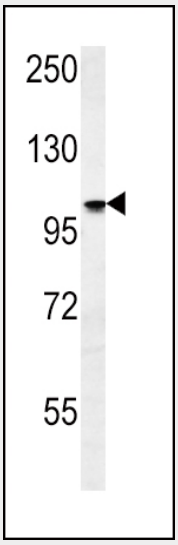
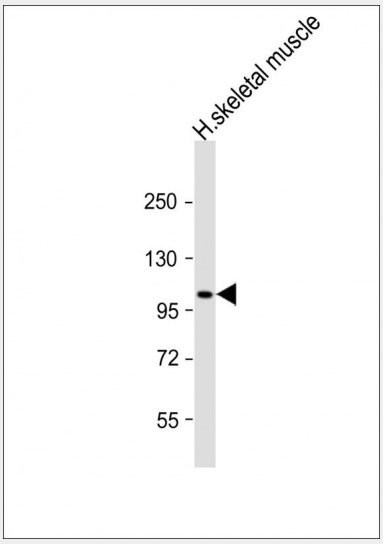


ATP1A2 Antibody (Center) (Cat. #AP5828c) western blot analysis in mouse heart tissue lysates (15ug/lane).This demonstrates the ATP1A2 antibody detected ATP1A2 protein (arrow).



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).



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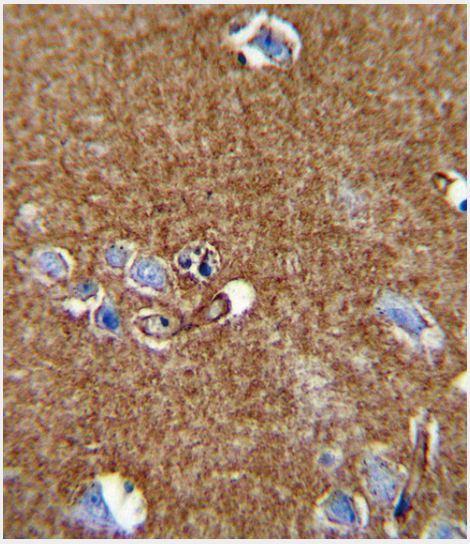
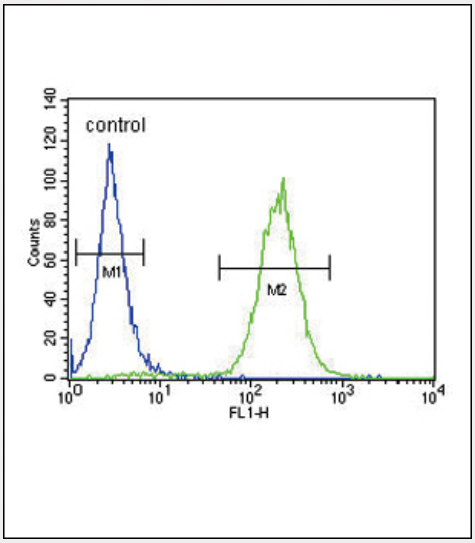
Anti-ATP1A2 Antibody (Center) at 1:2000 dilution + human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 112 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.