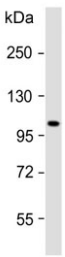
ATP1A2 Antibody / Sodium pump subunit alpha-2 (F54297)

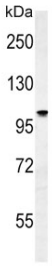
Catalog No.	Formulation	Size
F54297-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54297-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

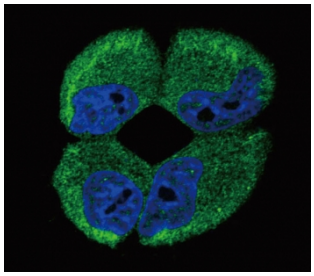
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	SAS precipitation
UniProt	P50993
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Immunofluorescence : 1:25 Flow Cytometry : 1:25 (1x10e6 cells)
Limitations	This ATP1A2 antibody is available for research use only.



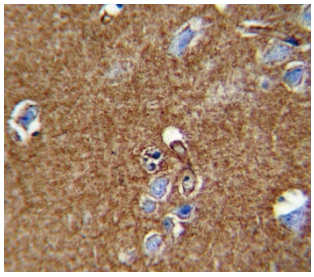
Western blot testing of human skeletal muscle lysate with ATP1A2 antibody. Predicted molecular weight ~112 kDa.



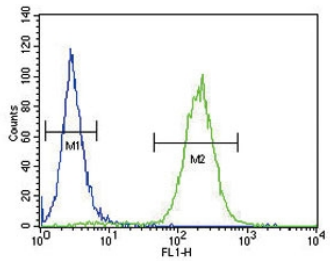
Western blot testing of human MCF7 cell lysate with ATP1A2 antibody. Predicted molecular weight ~112 kDa.



Immunofluorescent staining of fixed and permeabilized human MCF7 cells with ATP1A2 antibody (green) and DAPI nuclear stain (blue).



IHC testing of FFPE human brain tissue with ATP1A2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with ATP1A2 antibody; Blue=isotype control, Green= ATP1A2 antibody.

Description

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. [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the ATP1A2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 451-479 from the human protein were used as the immunogen for the ATP1A2 antibody.

Storage

Aliquot the ATP1A2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.