Datasheet for ABIN652011

anti-ATP1A2 antibody (AA 451-479)

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Overview

Quantity:	400 µL
Target:	ATP1A2
Binding Specificity:	AA 451-479
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP1A2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	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.
Clone:	RB19033
Isotype:	Ig Fraction
Predicted Reactivity:	B, Pig, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ATP1A2

Target Details

Alternative Name:	ATP1A2 (ATP1A2 Products)
Molecular Weight:	112265
Gene ID:	477
NCBI Accession:	NP_000693
UniProt:	P50993
Pathways:	Thyroid Hormone Synthesis, Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	IF: 1:10~50. WB: 1:2000. WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50
Restrictions:	For Research Use only

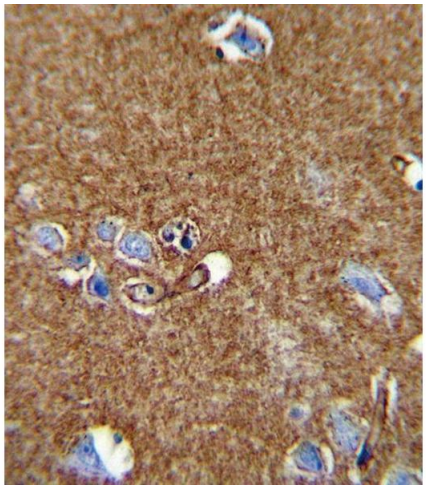
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

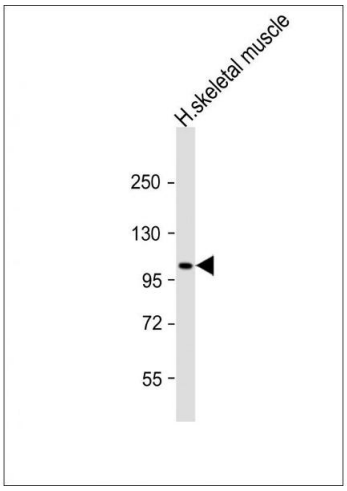
Product cited in:	Jiang, Wang, Wang, Xu, Xu, Tang, Sun, Wang, Zhang: "Enolase1 (ENO1) and glucose-6-phosphate isomerase (GPI) are good markers to predict human sperm freezability." in: **Cryobiology**, Vol. 71, Issue 1, pp. 141-5, (2015) (PubMed). Zhao, Li, Liao, Luo, Shi, Feng, Chen: "Evodiamine Induces Apoptosis and Inhibits Migration of HCT-116 Human Colorectal Cancer Cells." in: **International journal of molecular sciences**, Vol. 16, Issue 11, pp. 27411-21, (2015) (PubMed).

Images



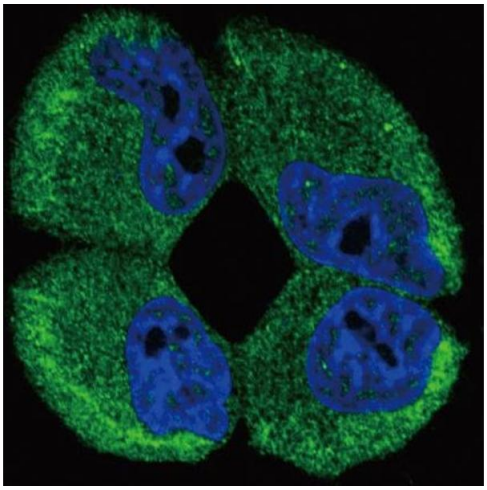
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. ATP1A2 Antibody (Center) (ABIN652011 and ABIN2840494) 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.



Western Blotting

Image 2. 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.



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of ATP1A2 Antibody (Center) (ABIN652011 and ABIN2840494) with MCF-7 cell followed by Alexa Fluor488-conjugated goat anti-rabbit IgG (green). DI was used to stain the cell nuclear (blue).

Please check the product details page for more images. Overall 6 images are available for ABIN652011.

Validation report #100013 for Immunofluorescence (IF)

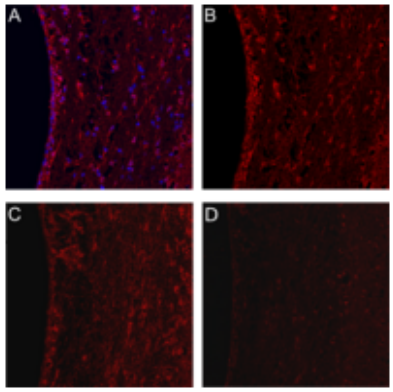
Successfully validated (Immunofluorescence (IF))

by Memorial Sloan-Kettering Cancer Center, Parada lab

Report Number: 100013

Date: May 11 2016

Target:	ATPase, Na+/K+ Transporting, alpha 2 Polypeptide (ATP1A2)
Lot Number:	SH09708BF
Method validated:	Immunofluorescence (IF)
Positive Control:	Wild-type mouse adult brain cryo-sections
Negative Control:	Rabbit IgG
Notes:	The antibody showed signals along the subventricular zone, which is consistent with the RNA expression analysis.
Primary Antibody:	ABIN652011
Secondary Antibody:	Donkey-anti-Rabbit-Cy3
Protocol:	• Wild-type mouse adult brain was dissected, fixed in 4% PFA for over/night, saturated in 30% sucrose, mounted in Cryo, and sectioned into 12µm sections. • Immunostaining for Cryo Sections: ◦ Dry slides at 50-55°C for 15-30min (or RT for 30min). ◦ Wash with PBS 5min X 3 (shake gently). ◦ Block with 10% Normal Donkey Serum (NDS) at RT for 1h. ◦ Incubate with ABIN652011 diluted 1:10 - 1:800 in 2% NDS at 4°C overnight. ◦ Wash with PBS 5min X 3. ◦ Incubate with the secondary antibody Donkey-anti-Rabbit-Cy3 together with DAPI 1:100 at RT for 1h (prepared in 2% NDS), cover the chamber with foil. ◦ Wash with PBS 5min X 3. ◦ Add three drops of water-based Immu-mount. ◦ Cover with 24 X 60 cover glass. • Imaging: ◦ Images were taken using a Zeiss Axio2-Imaging system, 20X-0.5NA-Dry Dye-1004-072 objective, DAPI and Cy3 channel.
Experimental Notes:	ABIN652011 worked at 1:10, did not work well in 1:50-1:200.



Validation image no. 1 for anti-ATPase, Na+/K+ Transporting, alpha 2 Polypeptide (ATP1A2) (AA 451-479) antibody (ABIN652011)

IF validation of ATP1A2 antibody ABIN652011 on mouse brain sections. A. ABIN652011 diluted 1:10 (red), DAPI counterstaining (blue). B. Dilution factor 1:10. C. Dilution factor 1:50. D. Dilution factor 1:200.