abcam

Product datasheet

Anti-ATP1A2 antibody [EPR11896(B)] ab166888

Recombinant RabMAb

3 References 3 Images

Overview

Product name	Anti-ATP1A2 antibody [EPR11896(B)]
Description	Rabbit monoclonal [EPR11896(B)] to ATP1A2
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: ICC/IF,IHC-P or IP
Species reactivity	Reacts with: Human
	Predicted to work with: Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human skeletal muscle and fetal heart lysates
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including:
	- High batch-to-batch consistency and reproducibility
	- Improved sensitivity and specificity
	- Long-term security of supply
	- Animal-free production
	For more information see here.
	Our RabMAb $^{ extsf{B}}$ technology is a patented hybridoma-based technology for making rabbit
	monoclonal antibodies. For details on our patents, please refer to <u>RabMAb[®] patents</u> .

Properties	
Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR11896(B)

Applications

 The Abpromise guarantee
 Our Abpromise guarantee
 covers the use of ab166888 in the following tested applications.

 The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

 Application
 Abreviews
 Notes

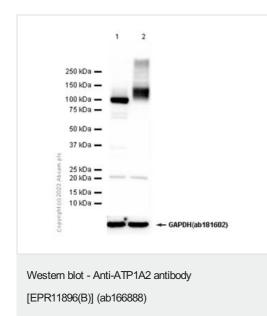
 WB
 1/1000 - 1/5000. Detects a band of approximately 102 kDa

Is unsuitable for ICC/IF,IHC-P or IP.

Application notes

Target	
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.
Involvement in disease	Defects in ATP1A2 are the cause of migraine familial hemiplegic type 2 (FHM2) [MIM:602481]. FHM2 is a rare, severe, autosomal dominant subtype of migraine characterized by aura and some hemiparesis. Defects in ATP1A2 are a cause of alternating hemiplegia of childhood (AHC) [MIM:104290]. AHC is typically distinguished from familial hemiplegic migraine by infantile onset of the symptoms and high prevalence of associated neurological deficits that become increasingly obvious with age.
Sequence similarities	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily.
Cellular localization	Membrane. Cell membrane.

Images



All lanes : Anti-ATP1A2 antibody [EPR11896(B)] (ab166888)

(predicted molecular weight: 112 kDa).

Lane 1 : Human cerebellum lysate unboiled Lane 2 : Human cerebellum lysate boiled

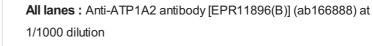
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG

Predicted band size: 112 kDa Observed band size: 102 kDa Blocking and diluting buffer: 5% NFDM/TBST

We recommend not to boil the samples after lysis to get desired WB results



Lane 1 : Mouse brain lysate unboiled
Lane 2 : Mouse brain lysate boiled
Lane 3 : Rat brain lysate unboiled
Lane 4 : Rat brain lysate boiled

Lysates/proteins at 20 µg per lane.

Secondary

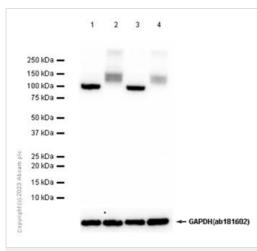
All lanes : Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/20000 dilution

Predicted band size: 112 kDa Observed band size: 102 kDa

Exposure time: 1 second

Blocking and diluting buffer: 5% NFDM/TBST

We recommend not to boil the samples after lysis to get desired WB results



Western blot - Anti-ATP1A2 antibody [EPR11896(B)] (ab166888)



Anti-ATP1A2 antibody [EPR11896(B)] (ab166888)

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