For Research Use Only

ATP2A1 Polyclonal antibody

Catalog Number:22361-1-AP 11 Publications



Basic Information

Catalog Number:

 22361-1-AP
 BC037354

 Size:
 GeneID (NCBI):

 150ul , Concentration: 800 ug/ml by
 487

Nanodrop and 380 ug/ml by Bradford UNIPROT ID: method using BSA as the standard; O1/083

method using BSA as the standard; O14983

Source: Full Name:
Rabbit ATPage Ca

Rabbit ATPase, Ca++ transporting, cardiac Isotype: muscle, fast twitch 1
IgG Calculated MW:

Immunogen Catalog Number: 1001 aa, 110 kDa AG17944 Observed MW: 116 kDa Purification Method: Antigen Affinity purified Recommended Dilutions: WB 1:20000-1:100000

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:50-1:500

Applications

Tested Applications: WB, IHC, IP, ELISA Cited Applications: WB, IHC, IF

Species Specificity: human, mouse, rat Cited Species:

human, mouse, pig, chicken

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse skeletal muscle tissue, rat skeletal muscle

tissue

GenBank Accession Number:

IP: mouse skeletal muscle tissue,

IHC: human skeletal muscle tissue, human heart tissue, mouse skeletal muscle tissue

Background Information

ATP2A1 also known as SERCA1, encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen and is involved in muscular excitation and contraction. Mutations in ATP2A1 cause some autosomal recessive forms of Brody disease(PMID: 23911890, 10914677).

Notable Publications

Author	Pubmed ID	Journal	Application
Sijie Wang	36216077	Physiol Behav	WB
Jie Yang	30334551	Metallomics	WB
Nagakatsu Harada	32451822	J Muscle Res Cell Motil	WB

Storage

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

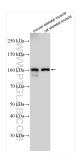
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

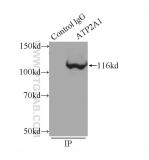
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 22361-1-AP (ATP2A1 antibody) at dilution of 1:120000 incubated at room temperature for 1.5 hours.



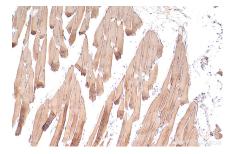
IP result of anti-ATP2A1 (IP:22361-1-AP, 5ug; Detection:22361-1-AP 1:700) with mouse skeletal muscle tissue lysate 2160ug.



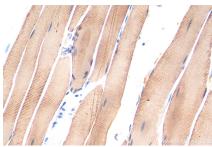
Immunohistochemical analysis of paraffinembedded human skeletal muscle tissue slide using 22361-1-AP (ATP2A1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human skeletal muscle tissue slide using 22361-1-AP (ATP2A1 Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 22361-1-AP (ATP2A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 22361-1-AP (ATP2A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).