

For Research Use Only

# SERCA2/ATP2A2 Monoclonal antibody

Catalog Number: 67248-1-Ig **13 Publications**



## Basic Information

<b>Catalog Number:</b> 67248-1-Ig	<b>GenBank Accession Number:</b> BC035588	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop and 601 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 488	<b>CloneNo.:</b> 1F11A11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P16615	<b>Recommended Dilutions:</b> WB 1:3000-1:20000 IHC 1:250-1:1000
<b>Isotype:</b> IgG1	<b>Full Name:</b> ATPase, Ca <sup>++</sup> transporting, cardiac muscle, slow twitch 2	
<b>Immunogen Catalog Number:</b> AG5052	<b>Calculated MW:</b> 1042 aa, 115 kDa	
	<b>Observed MW:</b> 120 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, HepG2 cells, MCF-7 cells, HSC-T6 cells, NIH/3T3 cells
<b>Cited Applications:</b> WB, IHC, IF	<b>IHC :</b> human urothelial carcinoma tissue, mouse skeletal muscle tissue
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	

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

## Background Information

ATP2A2, also known as SERCA2 (Sarco/endoplasmic reticulum-type calcium transport ATPase 2), is a 110 kDa magnesium-dependent enzyme catalyzing the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Human SERCA2 gene gives rise to several alternatively spliced isoforms: SERCA2a, SERCA2b and SERCA2c. ATP2A2 is mainly expressed in the sarcoplasmic reticulum of muscle cells and the endoplasmic reticulum of most cell types.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu Chen	34592660	Cell Calcium	WB
Huan Wei	25200835	J Cell Physiol	WB
Jin-Young Yoon	35872650	Clin Transl Med	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

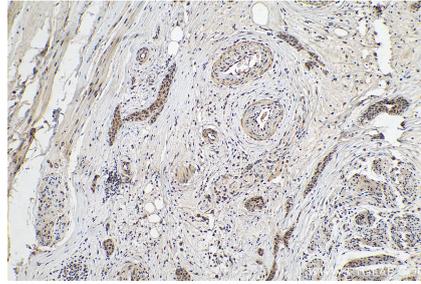
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

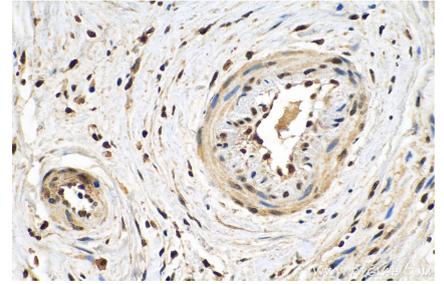
## Selected Validation Data



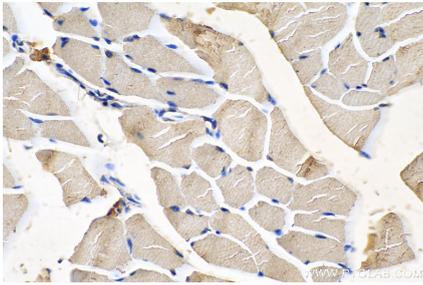
HEK-293 cells were subjected to SDS PAGE followed by western blot with 67248-1-Ig (SERCA2,ATP2A2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



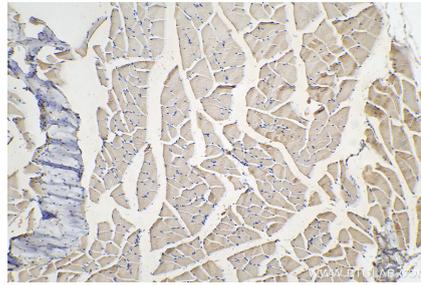
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 67248-1-Ig (SERCA2,ATP2A2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 67248-1-Ig (SERCA2,ATP2A2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67248-1-Ig (SERCA2,ATP2A2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67248-1-Ig (SERCA2,ATP2A2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).