

For Research Use Only

# ATP2C1 Polyclonal antibody

Catalog Number: 13310-1-AP **6 Publications**



## Basic Information

<b>Catalog Number:</b> 13310-1-AP	<b>GenBank Accession Number:</b> BC028139	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 350 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 27032	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P98194	
<b>Isotype:</b> IgG	<b>Full Name:</b> ATPase, Ca <sup>++</sup> transporting, type 2C, member 1	
<b>Immunogen Catalog Number:</b> AG4143	<b>Calculated MW:</b> 919 aa, 101 kDa	
	<b>Observed MW:</b> 95-103 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b> <b>WB:</b> HeLa cells, A431 cells, human brain tissue, rat brain tissue, mouse brain tissue <b>IP:</b> mouse kidney tissue, <b>IHC:</b> mouse brain tissue, <b>IF/ICC:</b> HepG2 cells,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	

**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

ATP2C1, also known as hSPCA1, belongs to the family of P-type cation transport ATPases. ATP2C1 is a Golgi-localized ATPase that mediates Golgi uptake of cytosolic Ca<sup>2+</sup> and Mg<sup>2+</sup> and has a role in regulating Ca<sup>2+</sup> and Mn<sup>2+</sup> cellular content (PMID: 11741891). ATP2C1 is found in most tissues except colon, thymus, spleen, and leukocytes. It is expressed in keratinocytes (PMID: 15831496, 14632183). Defects in ATP2C1 cause Hailey-Hailey disease (HHD)(PMID: 10615129, 28035777).

## Notable Publications

Author	Pubmed ID	Journal	Application
Peiyao Li	36254249	Clin Cosmet Investig Dermatol	WB
Hongfu Xie	34239867	Front Cell Dev Biol	WB
Julian Terglane	39869616	PLoS One	IF

## Storage

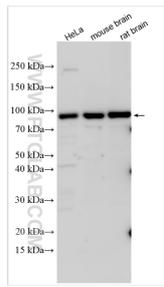
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

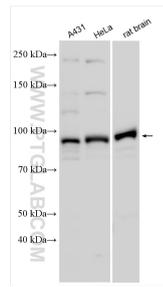
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

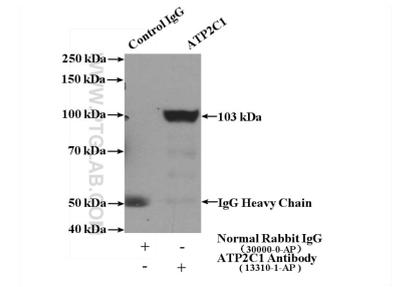
## Selected Validation Data



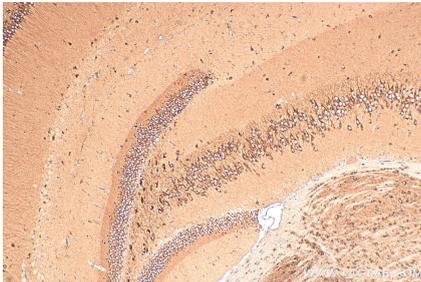
Various lysates were subjected to SDS PAGE followed by western blot with 13310-1-AP (ATP2C1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



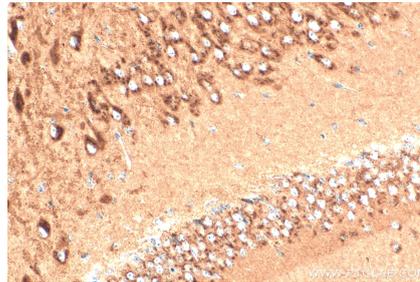
Various lysates were subjected to SDS PAGE followed by western blot with 13310-1-AP (ATP2C1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



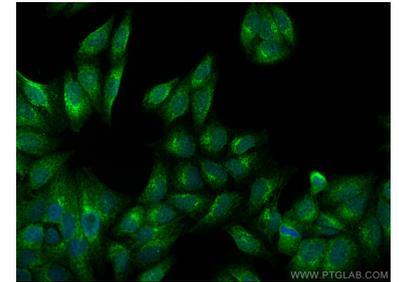
IP result of anti-ATP2C1 (IP:13310-1-AP, 4ug; Detection:13310-1-AP 1:500) with mouse kidney tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13310-1-AP (ATP2C1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13310-1-AP (ATP2C1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ATP2C1 antibody (13310-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).