

For Research Use Only

# ZIP7 Polyclonal antibody

Catalog Number: 19429-1-AP

Featured Product

18 Publications



## Basic Information

<b>Catalog Number:</b> 19429-1-AP	<b>GenBank Accession Number:</b> BC000645	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 400 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7922	<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 1:20-1:200 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> solute carrier family 39 (zinc transporter), member 7	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 469 aa, 50 kDa	
<b>Immunogen Catalog Number:</b> AG13762	<b>Observed MW:</b> 45-50 kDa, 56 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, HeLa cells IP : mouse brain tissue, IHC : human kidney tissue, human breast cancer tissue IF : HEK-293 cells,
<b>Cited Applications:</b> IF, IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, 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

ZIP7 is a functional zinc transporter transporting zinc from the Golgi apparatus to the cytoplasm of the cell. ZIP7 is post-translationally regulated by CK2-mediated phosphorylation. This ZIP7 phosphorylation results in zinc release from intracellular stores, which activates multiple tyrosine kinases and regulate cell survival and proliferation. Dual bands of 50 kDa and 56 kDa detected by this antibody may represent the native and phosphorylated forms of ZIP7, respectively. (PMID: 28232492, 28205653)

## Notable Publications

Author	Pubmed ID	Journal	Application
Astrid Fauster	30237509	Cell Death Differ	WB
Silvia Ziliotto	31483418	Metallomics	WB
Johanna Ollig	30448545	J Nutr Biochem	WB

## Storage

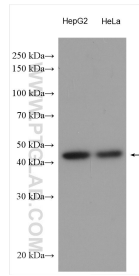
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

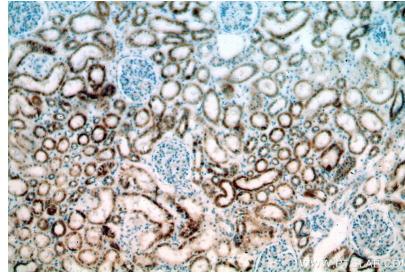
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

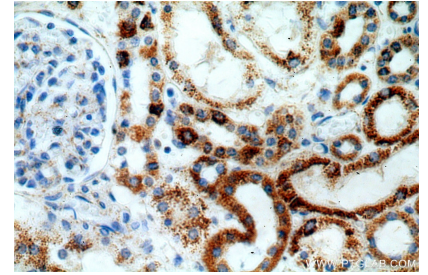
## Selected Validation Data



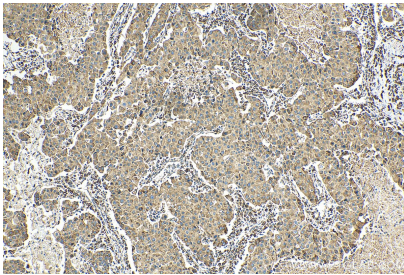
Various lysates were subjected to SDS PAGE followed by western blot with 19429-1-AP (ZIP7 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



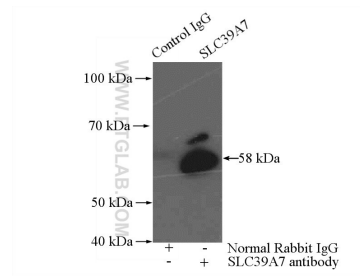
Immunohistochemical analysis of paraffin-embedded human kidney using 19429-1-AP (ZIP7 antibody) at dilution of 1:100 (under 10x lens).



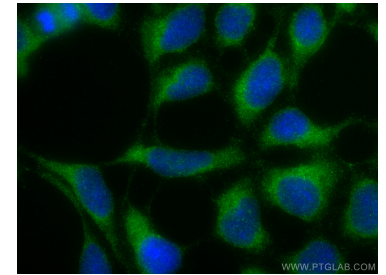
Immunohistochemical analysis of paraffin-embedded human kidney using 19429-1-AP (ZIP7 antibody) at dilution of 1:100 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 19429-1-AP (ZIP7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-ZIP7 (IP:19429-1-AP, 4 $\mu$ g; Detection:19429-1-AP 1:500) with mouse brain tissue lysate 4000 $\mu$ g.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using ZIP7 antibody (19429-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).