

For Research Use Only

# SLC39A2 Polyclonal antibody

Catalog Number: 21287-1-AP



## Basic Information

<b>Catalog Number:</b> 21287-1-AP	<b>GenBank Accession Number:</b> BC096723	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 29986	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> solute carrier family 39 (zinc transporter), member 2	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 309 aa, 33 kDa	
<b>Immunogen Catalog Number:</b> AG15807	<b>Observed MW:</b> 33 kDa, 66-70 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : K-562 cells, IHC : mouse brain tissue,
<b>Species Specificity:</b> human	

**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

SLC39A2 (hZIP2) is a human zinc importer in the ZIP family, which is essential in the maintenance of intracellular zinc homeostasis and is upregulated by zinc depletion. SLC39A2 is highly expressed in prostate epithelial cells and is involved in prostate cancer development. Most SLC39 proteins consist of eight transmembrane domains (TMDs), with extracellular or intravesicular amino and carboxy termini (PMID: 34790705). Zip2 gene knockout exacerbated myocardial I/R injury, whereas Zip2 gene transfer reduced myocardial infarction (PMID: 31095941). The predicted molecular weight of SLC39A2 is 33 kDa, and a band of dimers at 66 kDa can also be detected by this antibody (PMID: 24619115).

## Storage

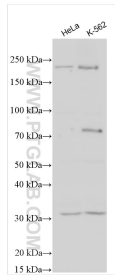
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

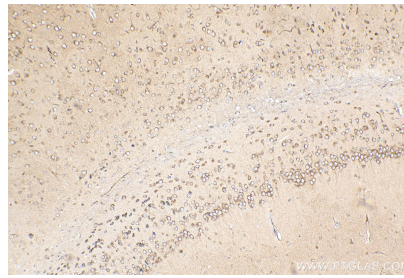
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21287-1-AP (SLC39A2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21287-1-AP (SLC39A2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).