

For Research Use Only

# ZIP8 Polyclonal antibody

Catalog Number: 20459-1-AP

Featured Product

45 Publications



## Basic Information

### Catalog Number:

20459-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14292

### GenBank Accession Number:

BC012125

### GeneID (NCBI):

64116

### UNIPROT ID:

Q9COK1

### Full Name:

solute carrier family 39 (zinc transporter), member 8

### Calculated MW:

460 aa, 50 kDa

### Observed MW:

42-46 kDa, 75-90 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2400

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, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, pig, bovine

**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 lung tissue, mouse heart tissue, U-937 cells, mouse liver tissue

IP : mouse liver tissue,

IHC : human kidney tissue, human placenta tissue, mouse lung tissue, mouse small intestine tissue, mouse kidney tissue

## Background Information

SLC39A8, also known as ZIP8, belongs to the ZIP family of metal ion transporters which function to transport zinc and/or other metal ion substrates from the extracellular space or organellar lumen into the cytoplasm. Recently it was found that ZIP8 expression is upregulated in human monocytes in response to LPS, TNF- $\alpha$ , and live bacteria, facilitating cytoprotection during the early inflammation. Besides zinc ZIP8 can also transport cadmium and manganese efficiently. It is predicted that ZIP8 contains 3 potential N-linked glycosylation sites and is subject to glycosylation, which may account for the presences of multiple molecular weights, such as 43 kDa, 49 kDa, 60 kDa, 75-90 kDa, 150 kDa, and 200 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenchao Xu	36098277	Andrology	IHC
Yusuf Olgar	30444646	Can J Physiol Pharmacol	WB
Joanna M P Melia	31151823	Biochem Biophys Res Commun	WB, IHC

## 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

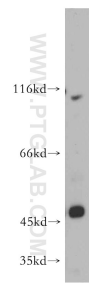
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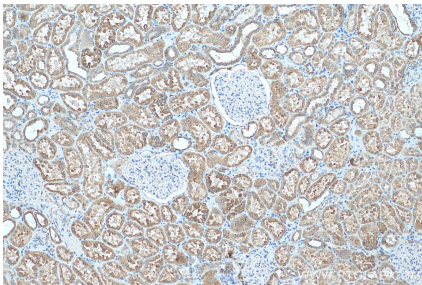
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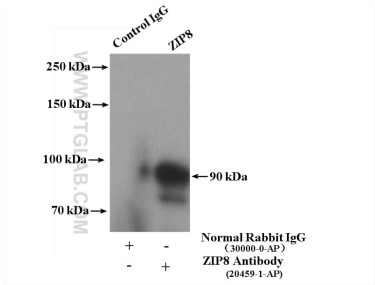
Selected Validation Data



mouse lung tissue were subjected to SDS PAGE followed by western blot with 20459-1-AP (ZIP8 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 20459-1-AP (ZIP8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ZIP8 (IP:20459-1-AP, 4ug; Detection:20459-1-AP 1:500) with mouse liver tissue lysate 6000ug.