

For Research Use Only

ZIP8 Polyclonal ANTIBODY



Catalog Number: 20459-1-AP

Featured Product

25 Publications

Basic Information

Catalog Number:

20459-1-AP

Size:

150UL, Concentration: 300 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14292

GenBank Accession Number:

BC012125

GeneID (NCBI):

64116

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 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:10-1:100

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

FC, IF, IHC, WB

Species Specificity:

human, mouse

Cited Species:

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

Positive Controls:

WB: mouse lung tissue, mouse heart tissue, U-937 cells, mouse pancreas tissue, mouse thymus tissue, mouse liver tissue

IP: mouse liver tissue,

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

IF: HepG2 cells,

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- α , 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
Yusuf Olgar	30444646	Can J Physiol Pharmacol	WB
Joanna M P Melia	31151823	Biochem Biophys Res Commun	WB,IHC
Mayu Nishikawa	28527331	Environ Toxicol Pharmacol	IF

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

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)

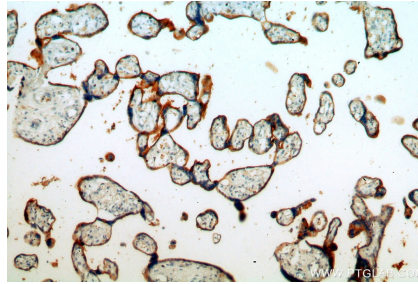
E: proteintech@ptglab.com
W: ptglab.com

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

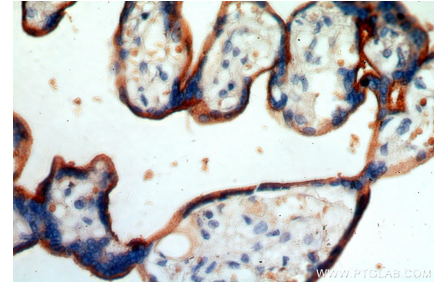
Selected Validation Data



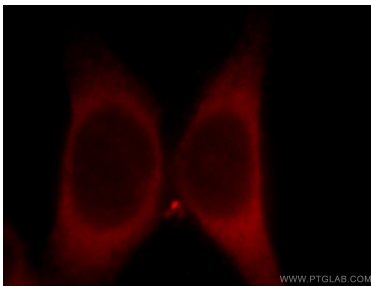
mouse lung tissue were subjected to SDS PAGE followed by western blot with 20459-1-AP (ZIP8 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



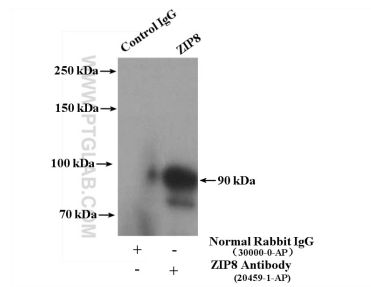
Immunohistochemical analysis of paraffin-embedded human placenta using 20459-1-AP (ZIP8 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta using 20459-1-AP (ZIP8 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using SLC39A8 antibody 20459-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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