

For Research Use Only

# NHE8 Polyclonal antibody

Catalog Number: 18318-1-AP

Featured Product



## Basic Information

### Catalog Number:

18318-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13111

### GenBank Accession Number:

BC112213

### GeneID (NCBI):

23315

### UNIPROT ID:

Q9Y2E8

### Full Name:

solute carrier family 9 (sodium/hydrogen exchanger), member 8

### Calculated MW:

581 aa, 65 kDa

### Observed MW:

70-85 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Species Specificity:

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**: HEK-293 cells, mouse testis tissue, mouse colon tissue, mouse liver tissue, mouse kidney tissue

**IHC**: human kidney tissue, human colon tissue, human lung tissue, human ovary tissue, human placenta tissue, human skin tissue, human testis tissue, mouse testis tissue

**IF/ICC**: HEK-293 cells,

## Background Information

NHE8, encoded by SLC9A8, is a member of sodium/hydrogen exchanger family which are transmembrane proteins that mediate the electroneutral exchange of sodium (Na) for hydrogen (H) and get involved in intracellular pH homeostasis, cell volume regulation, acid-base regulation, and so on. NHE8 has a broad tissue distribution, with relatively high abundance in the gastrointestinal tract. It has been reported that NHE8 expression differs among different regions in the stomach, very low in nonglandular region whereas very high in glandular region. The predicted molecular weight of NHE8 is 64-65 kDa, while its glycosylated form often migrates around 70-85 kDa.

## 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

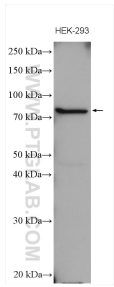
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

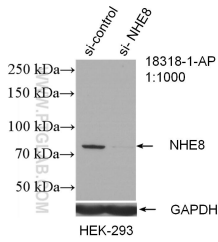
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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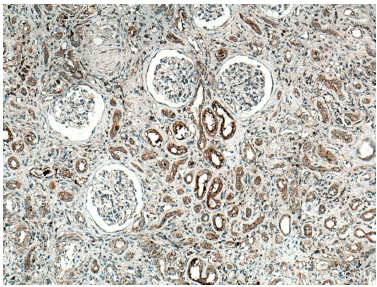
# Selected Validation Data



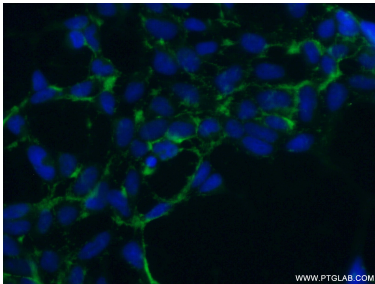
HEK-293 cells were subjected to SDS PAGE followed by western blot with 18318-1-AP (NHE8 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of NHE8 antibody (18318-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NHE8 transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18318-1-AP (NHE8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 18318-1-AP (NHE8 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).