

For Research Use Only

# SLC9A3/NHE3 Polyclonal antibody

Catalog Number:33559-1-AP



## Basic Information

<b>Catalog Number:</b> 33559-1-AP	<b>GenBank Accession Number:</b> BC101669	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6550	<b>Recommended Dilutions:</b> WB: 1:500-1:3000 IHC: 1:1000-1:4000 IF-P: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P48764	
<b>Isotype:</b> IgG	<b>Full Name:</b> solute carrier family 9 (sodium/hydrogen exchanger), member 3	
<b>Immunogen Catalog Number:</b> AG38302	<b>Calculated MW:</b> 834 aa, 93 kDa	
	<b>Observed MW:</b> 80-100 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b> WB : 37°C incubated mouse kidney tissue, IHC : mouse kidney tissue, IF-P: mouse small intestine tissue, mouse kidney tissue
<b>Species Specificity:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

SLC9A3, also known as NHE3, belongs to the sodium hydrogen exchange protein family (NHE) and is mainly responsible for regulating the concentration of sodium and hydrogen ions inside and outside the cell. SLC9A3 is a Major apical Na<sup>+</sup>/H<sup>+</sup> exchanger in kidney and intestine, playing an important role in renal and intestine Na<sup>+</sup> absorption and blood pressure regulation (PMID:24622516, 2635877). Mutations in SLC9A3 cause Congenital Sodium Diarrhea (PMID: 26358773, 31276831).

## Storage

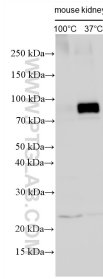
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

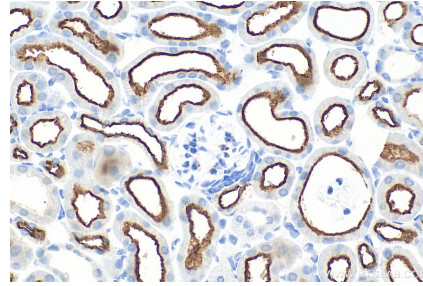
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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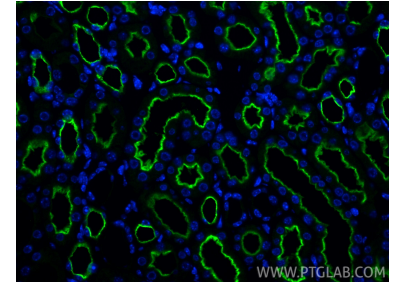
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33559-1-AP (SLC9A3/NHE3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 33559-1-AP (SLC9A3/NHE3 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using SLC9A3/NHE3 antibody (33559-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse small intestine tissue using SLC9A3/NHE3 antibody (33559-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).