

For Research Use Only

# SLC4A7/NBCn1 Recombinant monoclonal antibody, PBS Only

Catalog Number:83676-5-PBS



## Basic Information

<b>Catalog Number:</b> 83676-5-PBS	<b>GenBank Accession Number:</b> NM_003615	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9497	<b>CloneNo.:</b> 252520E8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y6M7	
<b>Isotype:</b> IgG	<b>Full Name:</b> solute carrier family 4, sodium bicarbonate cotransporter, member 7	
	<b>Calculated MW:</b> 136 kDa	
	<b>Observed MW:</b> 150-170 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## Background Information

SLC4A7 also known as NBCn1, NBC3, NBC2, is an electroneutral Na<sup>(+)</sup>/HCO<sub>3</sub><sup>(-)</sup> cotransporter (PMID: 14736710). SLC4A7 mediates the coupled movement of sodium and bicarbonate ions across the plasma membrane. SLC4A7 plays a key role in macrophage acidification, mediating bicarbonate import into the cytoplasm which is crucial for net acid extrusion and maintenance of cytoplasmic pH during phagocytosis (PubMed:29779931). SLC4A7 is expressed in testis, spleen, and retina. SLC4A7 may be a major regulator of extracellular pH of retina where light stimulation produces an extracellular alkalization and may contribute as a solute transporter to the prevention of retinal detachment(PMID: 9610397). The molecular weight of SLC4A7/NBCn1 detected at 150-170 kDa may be due to glycosylation modification.

## Storage

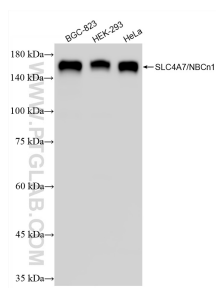
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

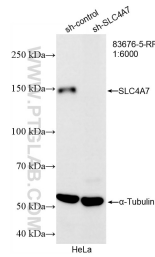
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

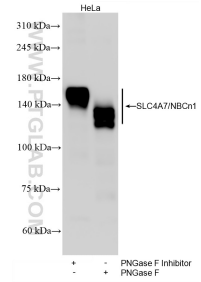
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83676-5-RR (SLC4A7/NBCn1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83676-5-PBS in a different storage buffer formulation.



WB result of SLC4A7/NBCn1 antibody (83676-5-RR; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SLC4A7/NBCn1 transfected HeLa cells. This data was developed using the same antibody clone with 83676-5-PBS in a different storage buffer formulation.



HeLa cells were subjected to SDS PAGE followed by western blot with 83676-5-RR (SLC4A7/NBCn1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83676-5-PBS in a different storage buffer formulation.