

For Research Use Only

SLC4A7/NBCn1 Recombinant monoclonal antibody, PBS Only

Catalog Number:83676-5-PBS



Basic Information

Catalog Number:

83676-5-PBS

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_003615

GeneID (NCBI):

9497

UNIPROT ID:

Q9Y6M7

Full Name:

solute carrier family 4, sodium bicarbonate cotransporter, member 7

Calculated MW:

136 kDa

Observed MW:

150-170 kDa

Purification Method:

Protein A purification

CloneNo.:

252520E8

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human

Background Information

SLC4A7 also known as NBCn1, NBC3, NBC2, is an electroneutral Na⁽⁺⁾/HCO₃⁽⁻⁾ 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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

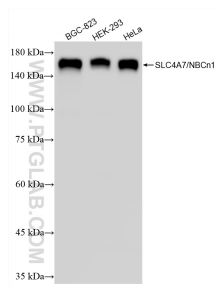
T: 4006900926

E: Proteintech-CN@ptglab.com

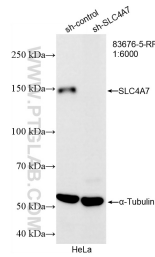
W: ptgcn.com

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

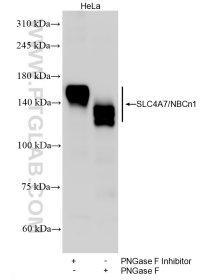
Selected Validation Data



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.