

For Research Use Only

SLC4A7/NBCn1 Recombinant monoclonal antibody

Catalog Number:83676-5-RR



Basic Information

Catalog Number:

83676-5-RR

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

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : BGC-823 cells, HeLa cells, HEK-293 cells

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 -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

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

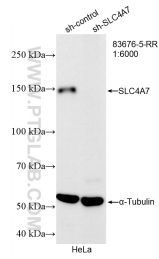
T: 4006900926

E: Proteintech-CN@ptglab.com

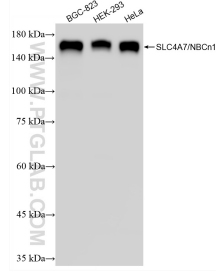
W: ptgcn.com

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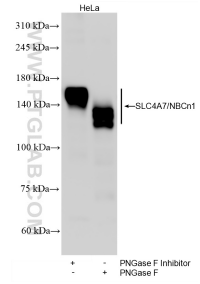
Selected Validation Data



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.



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.



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.