

For Research Use Only

NBCn1 Polyclonal antibody

Catalog Number: 29442-1-AP

1 Publications



Basic Information

Catalog Number:

29442-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30545

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:

136 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:5000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

human

Positive Controls:

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

Notable Publications

Author	Pubmed ID	Journal	Application
Hui Lu	39607826	Cell Rep	WB

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

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

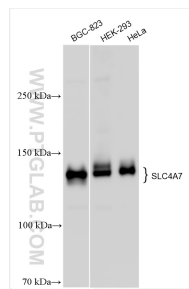
T: 4006900926

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 29442-1-AP (NBCn1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.