

For Research Use Only

NBCn1 Polyclonal antibody

Catalog Number: 29442-1-AP



Basic Information

Catalog Number: 29442-1-AP	GenBank Accession Number: NM_003615	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 9497	Recommended Dilutions: WB 1:1000-1:5000
Source: Rabbit	Full Name: solute carrier family 4, sodium bicarbonate cotransporter, member 7	
Isotype: IgG	Calculated MW: 136 kDa	
Immunogen Catalog Number: AG30545	Observed MW: 136 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : BGC-823 cells, HEK-293 cells, HeLa cells
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).

Storage

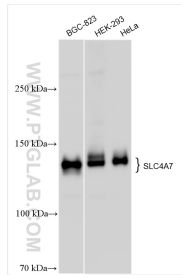
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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
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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.