

For Research Use Only

# NBCn1 Polyclonal antibody

Catalog Number: 29442-1-AP



## 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

**Species Specificity:**

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<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).

## 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:

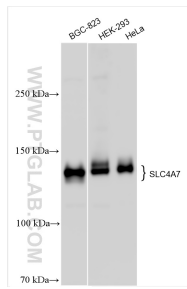
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.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.