

**SLC4A8 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18549a****Specification**

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**SLC4A8 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q2Y0W8](#)**SLC4A8 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 9498**Other Names**Electroneutral sodium bicarbonate exchanger 1, Electroneutral Na(+)-driven Cl-HCO<sub>3</sub> exchanger, Solute carrier family 4 member 8, k-NBC3, S4A8**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SLC4A8 Antibody (N-term) Blocking Peptide - Protein Information****Name** SLC4A8 {ECO:0000312|EMBL:AAY79176.1, ECO:0000312|HGNC:HGNC:11034}**Function**Mediates electroneutral sodium- and carbonate-dependent chloride-HCO<sub>3</sub>(-) exchange with a Na(+):HCO<sub>3</sub>(-) stoichiometry of 2:1 (PubMed:<a href="http://www.uniprot.org/citations/18577713" target="\_blank">18577713</a>). Plays a major role in pH regulation in neurons (By similarity). Mediates sodium reabsorption in the renal cortical collecting ducts (By similarity).**Cellular Location**

Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q6RVG2}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:Q6RVG2}; Multi-pass membrane protein [Isoform 3]: Cell membrane; Multi-pass membrane protein [Isoform 5]: Cell membrane; Multi-pass membrane protein

**Tissue Location**

Expressed in the pyramidal cells of the hippocampus (at protein level). Highly expressed in all major regions of the brain, spinal column and in testis, and moderate levels in trachea, thyroid and medulla region of kidney. Low expression levels observed in pancreas and kidney cortex. [Isoform 4]: Expressed in the brain, heart and kidney.

### **SLC4A8 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **SLC4A8 Antibody (N-term) Blocking Peptide - Images**

### **SLC4A8 Antibody (N-term) Blocking Peptide - Background**

SLC4A8 mediates electroneutral sodium-and carbonate-dependent choride-HCO<sub>3</sub>(-) exchange with a Na(+):HCO<sub>3</sub>(-) stoichiometry of 2:1. Plays a major role in pH regulation in neurons. May be involved in cell pH regulation by transporting HCO<sub>3</sub>(-) from blood to cell. Enhanced expression in severe acid stress could be important for cell survival by mediating the influx of HCO<sub>3</sub>(-) into the cells. Also mediates lithium-dependent HCO<sub>3</sub>(-) cotransport. May be regulated by osmolarity.

### **SLC4A8 Antibody (N-term) Blocking Peptide - References**

Parker, M.D., et al. *Physiol. Genomics* 34(3):265-276(2008)Loiselle, F.B., et al. *Am. J. Physiol., Cell Physiol.* 286 (6), C1423-C1433 (2004) :Pushkin, A., et al. *Am. J. Physiol., Cell Physiol.* 284 (3), C667-C673 (2003) :Park, M., et al. *J. Biol. Chem.* 277(52):50503-50509(2002)Gresz, V., et al. *Am. J. Physiol. Gastrointest. Liver Physiol.* 283 (2), G473-G480 (2002) :