

# Anti-SLC4A7 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS18481

## Product Information

---

<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">Q9Y6M7</a>
<b>Predicted</b>	Human, Mouse, Rat, Monkey
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	136044
<b>Concentration (mg/ml)</b>	1 mg/ml

## Additional Information

---

<b>Gene ID</b>	9497
<b>Alias Symbol</b>	SLC4A7
<b>Other Names</b>	SLC4A7, Bicarbonate transporter, BT, NBC2, NBC3, NBCN1, SBC2, NBC2B, MNBC3, SLC4A6
<b>Target/Specificity</b>	Recognizes endogenous levels of SLC4A7 protein.
<b>Reconstitution &amp; Storage</b>	Immunoaffinity purified
<b>Precautions</b>	Anti-SLC4A7 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	SLC4A7
<b>Synonyms</b>	BT, NBC2, NBC2B, NBC3, NBCn1, SBC2, SLC4
<b>Function</b>	Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry (PubMed: <a href="#">10347222</a> , PubMed: <a href="#">12403779</a> , PubMed: <a href="#">14578046</a> , PubMed: <a href="#">14736710</a> ). Mediates the sodium-dependent bicarbonate transport important for pH recovery after acid load as well as for regulation of steady-state pH in the duodenum and vascular smooth muscle cells (By similarity). 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: <a href="#">29779931</a> ). Provides cellular bicarbonate for de novo purine and pyrimidine synthesis and is a key mediator of de novo nucleotide synthesis downstream of mTORC1 signaling in proliferating cells (PubMed: <a href="#">35772404</a> ).

<b>Cellular Location</b>	Basolateral cell membrane {ECO:0000250 UniProtKB:Q9R1N3}; Multi-pass membrane protein. Apical cell membrane {ECO:0000250 UniProtKB:Q9R1N3}; Multi-pass membrane protein. Cell projection, stereocilium {ECO:0000250 UniProtKB:Q9R1N3}. Cell membrane; Multi-pass membrane protein. Note=Localizes to the stereocilia of cochlear outer hair cells and to the lateral membrane of cochlear inner hair cells (By similarity). {ECO:0000250 UniProtKB:Q9R1N3}
<b>Tissue Location</b>	Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.