

Anti-SLC4A7 Antibody (Internal)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18481**Specification**

Anti-SLC4A7 Antibody (Internal) - Product Information

Application	WB, IHC-P
Primary Accession	Q9Y6M7
Predicted	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	136044
Dilution	WB~~1:1000 IHC-P~~N/A

Anti-SLC4A7 Antibody (Internal) - Additional Information**Gene ID** 9497**Alias Symbol** SLC4A7**Other Names**

SLC4A7, Bicarbonate transporter, BT, NBC2, NBC3, NBCN1, SBC2, NBC2B, MNBC3, SLC4A6

Target/Specificity

Recognizes endogenous levels of SLC4A7 protein.

Reconstitution & Storage

Immunoaffinity purified

Precautions

Anti-SLC4A7 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-SLC4A7 Antibody (Internal) - Protein Information**Name** SLC4A7**Synonyms** BT, NBC2, NBC2B, NBC3, NBCn1, SBC2, SLC4**Function**

Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO₃(-) 1:1 stoichiometry (PubMed:10347222, PubMed:12403779, PubMed:14578046, PubMed:14736710). 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:29779931). 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:35772404).

Cellular Location

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}

Tissue Location

Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney.

Anti-SLC4A7 Antibody (Internal) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-SLC4A7 Antibody (Internal) - Images