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Anti-SLC4A7 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18481

Product Information

Application	WB, IHC-P
Primary Accession	Q9Y6M7
Predicted	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	136044
Concentration (mg/ml)	1 mg/ml

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.

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.

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