Variant A (SLC4A4) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC4A4 variant A, Polyclonal Antibody
Full Product Name	SLC4A4 variant A Polyclonal Antibody
Product Gene Name	anti-SLC4A4 antibody
Product Synonym Names	Electrogenic sodium bicarbonate cotransporter 1; Sodium bicarbonate cotransporter; Na (+)/HCO3 (-) cotransporter; Solute carrier family 4 member 4; kNBC1; SLC4A4; NBC; NBC1; NBCE1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	123,181 Da
OMIM	603345
3D Structure	ModBase 3D Structure for Q9Y6R1
Applications Tested/Suitable for anti-SLC4A4 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunohistochemistry-Frozen (IHC-F), Immunofluorescence (IF), Immunocytochemistry (ICC)
Related Product Information for anti-SLC4A4 antibody	MBS9233832 is an antibody targeting SLC4A4. Also known as SLC4A4 variant A Polyclonal Antibody. Reactive in Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SLC4A4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC4A4. It may not necessarily be applicable to this product.

NCBI GI #	148596928
NCBI GeneID	8671
NCBI Accession #	NP_001091954.1
UniProt Primary Accession #	Q9Y6R1
UniProt Secondary Accession #	O15153; Q8NEJ2; Q9H262; Q9NRZ1; Q9UIC0; Q9UIC1; Q9UP50; C4B714
UniProt Related Accession #	Q9Y6R1
GenBank Nucleotide #	NM_001098484.2
NCBI Official Full Name	electrogenic sodium bicarbonate cotransporter 1 isoform 1
NCBI Official Synonym Full Names	solute carrier family 4 (sodium bicarbonate cotransporter), member 4
NCBI Official Symbol	SLC4A4

NCBI Official Synonym Symbols	KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; NBCe1-A
UniProt Protein Name	Electrogenic sodium bicarbonate cotransporter 1
UniProt Synonym Protein Names	Na(+)/HCO3(-) cotransporter; Solute carrier family 4 member 4; kNBC1
Protein Family	Electrogenic sodium bicarbonate cotransporter
UniProt Gene Name	SLC4A4
UniProt Synonym Gene Names	NBC; NBC1; NBCE1; Sodium bicarbonate cotransporter
UniProt Entry Name	S4A4_HUMAN
NCBI Protein Information	electrogenic sodium bicarbonate cotransporter 1; Na(+)/HCO3(-) cotransporter; kNBC1; sodium bicarbonate cotransporter 1 (sodium bicarbonate cotransporter, kidney; sodium bicarbonate cotransporter, pancreas); solute carrier family 4, sodium bicarbonate cot
NCBI Summary for SLC4A4	This gene encodes a sodium bicarbonate cotransporter (NBC) involved in the regulation of bicarbonate secretion and absorption and intracellular pH. Mutations in this gene are associated with proximal renal tubular acidosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]
UniProt Comments for SLC4A4	SLC4A4: Electrogenic sodium/bicarbonate cotransporter with a Na(+):HCO3(-) stoichiometry varying from 1:2 to 1:3. May regulate bicarbonate influx/efflux at the basolateral membrane of cells and regulate intracellular pH. Defects in SLC4A4 are the cause of proximal renal tubular acidosis with ocular abnormalities (pRTA-OA); also known as renal tubular acidosis II. Caused by an impairment of bicarbonate absorption in the proximal tubule, proximal renal tubular acidosis (pRTA) is characterized by a decreased renal HCO3(-) threshold. pRTA-OA is an extremely rare autosomal recessive syndrome characterized by short stature, profound pRTA, mental retardation, bilateral glaucoma, cataracts and bandkeratopathy. Loss of interaction with and stimulation by CA4 is the cause of retinitis pigmentosa type 17 (RP17). Belongs to the anion exchanger (TC 2.A.31) family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter; Transporter, SLC family; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 4q21 Cellular Component: basolateral plasma membrane; integral to plasma membrane; plasma membrane Molecular Function: protein binding; inorganic anion exchanger activity; sodium:bicarbonate symporter activity Biological Process: transport; bicarbonate transport; regulation of intracellular pH; ion transport; transmembrane transport Disease: Renal Tubular Acidosis, Proximal, With Ocular Abnormalities And Mental Retardation
Research Articles on SLC4A4	**1.** The cell membrane gene SLC4A4 and the trafficking regulator gene COPA, which also plays an important role in early endosome maturation, were identified for the cellular entry of poly-arginine peptide.
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