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SLC4A8 Rabbit pAb

Catalog # AP97768

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q2Y0W8
Other Accession	Q2Y0W8
Predicted	Rat, Pig, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	122938
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC4A8
Epitope Specificity	211-310/1193
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the anion exchanger (TC 2.A.31) family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a membrane protein that functions to transport sodium and bicarbonate ions across the cell membrane. The encoded protein is important for pH regulation in neurons. The activity of this protein can be inhibited by 4,4'-Di-isothiocyanatostilbene-2,2'-disulfonic acid (DIDS). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

Additional Information

Gene ID	9498
Other Names	NBC3; NDCBE; C230026C11; kNBC-3; S4A8_HUMAN; SLC4A8; Electroneutral Na(+)-driven Cl-HCO3 exchanger; Solute carrier family 4 member 8; k-NBC3; KIAA0739; NBC; NDCBE1; Q8TC60_HUMAN; S4A8_MOUSE; Electroneutral Na+-driven Cl-HCO3 exchanger; S4A8_RAT; solute carrier family 4, sodium bicarbonate cotransporter, member 8
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC4A8 {ECO:0000312|EMBL:AAY79176.1, ECO:0000312|HGNC:HGNC:11034}
Function	Mediates electroneutral sodium- and carbonate-dependent chloride-HCO3(-) exchange with a Na(+):HCO3(-) stoichiometry of 2:1 (PubMed:18577713). 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.

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