

SLC4A5 Rabbit pAb

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Catalog # AP57824

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BY07
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Zebrafish, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	126255
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC4A5
Epitope Specificity	501-600/1137
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Apical cell membrane. Expressed in the apical plasma membrane domain of a subset of collecting ducts in the renal medulla.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the sodium bicarbonate cotransporter (NBC) family, part of the bicarbonate transporter superfamily. Sodium bicarbonate cotransporters are involved in intracellular pH regulation and electroneutral or electrogenic sodium bicarbonate transport. This protein is thought to be an integral membrane protein. Multiple transcript variants encoding different isoforms have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	57835
Other Names	Electrogenic sodium bicarbonate cotransporter 4, NBCe2, Solute carrier family 4 member 5, SLC4A5 (HGNC:18168)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
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	SLC4A5 (HGNC:18168)
Function	Mediates sodium- and bicarbonate-dependent electrogenic sodium bicarbonate cotransport, with a Na(+):HCO3(-) stoichiometry varying from 1:2 to 1:3.
Cellular Location	Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250 UniProtKB:Q6RI88}; Multi-pass membrane protein. Note=Expressed in the apical plasma membrane domain of a subset of collecting ducts in the renal medulla
Tissue Location	Highest expression observed in liver, spleen and testis; moderate expression in the choroid plexus, hippocampus, cerebrum and cerebellum of brain, and in kidney cortex and kidney medulla. Also observed in heart, pancreas, muscle, lung, placenta, stomach and small intestine. Weakest expression seen in peripheral blood lymphocytes, colon, duodenum, jejunum, ileum and skeletal muscle

Background

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