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SLC26A3 Rabbit pAb

Catalog # AP97274

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P40879
Other Accession	P40879
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84505
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC26A3
Epitope Specificity	101-200/764
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 SLC26A/SulP transporter (TC 2.A.53) family. Contains 1 STAS domain.
SUBUNIT	nteracts with CFTR, SLC26A6 and SLC9A3R1 (By similarity). Interacts with PDZK1.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
DISEASE	Defects in SLC26A3 are the cause of diarrhea type 1 (DIAR1) [MIM:214700]; also known as congenital chloride diarrhea (CLD). DIAR1 is a disease characterized by voluminous watery stools containing an excess of chloride. The children with this disease are often premature.
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 transmembrane glycoprotein that transports chloride ions across the cell membrane in exchange for bicarbonate ions. It is localized to the mucosa of the lower intestinal tract, particularly to the apical membrane of columnar epithelium and some goblet cells. The protein is essential for intestinal chloride absorption, and mutations in this gene have been associated with congenital chloride diarrhea. [provided by RefSeq, Oct 2008] Orthologsmouse all

Additional Information

Gene ID	1811
Other Names	CLD; DRA; 9030623B18Rik; 9130013M11Rik; S26A3_HUMAN; SLC26A3; Down-regulated in adenoma (Protein DRA); Solute carrier family 26 member 3; S26A3_MOUSE; S26A3_RAT; congenital chloride diarrhea; solute carrier family 26, member 3; solute carrier family 26 (anion exchanger), member 3; down-regulated in adenoma; Chloride anion exchanger

Dilution	IHC-P=1:100-500,IHC-F=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	SLC26A3
Synonyms	DRA
Function	Mediates chloride-bicarbonate exchange with a chloride bicarbonate stoichiometry of 2:1 in the intestinal epithelia (PubMed:16606687, PubMed:19321737, PubMed:22159084, PubMed:22627094). Plays a role in the chloride and bicarbonate homeostasis during sperm epididymal maturation and capacitation (By similarity).
Cellular Location	Apical cell membrane; Multi-pass membrane protein. Membrane {ECO:0000250|UniProtKB:Q9WVC8}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Localized in sperm membranes Midpiece of sperm tail. Colocalizes with CFTR at the midpiece of sperm tail (By similarity). {ECO:0000250|UniProtKB:Q9WVC8}
Tissue Location	Expressed in the colon. Expression is significantly decreased in adenomas (polyps) and adenocarcinomas of the colon

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