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SLC5A4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21548b

Product Information

Application	WB, E
Primary Accession	Q9NY91
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52929
Calculated MW	72456

Additional Information

Gene ID	6527
Other Names	Low affinity sodium-glucose cotransporter, Sodium/glucose cotransporter 3, Na(+)/glucose cotransporter 3, Solute carrier family 5 member 4, SLC5A4, SAAT1, SGLT2
Target/Specificity	This SLC5A4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 621-655 amino acids from the C-terminal region of human SLC5A4.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SLC5A4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC5A4 {ECO:0000303|PubMed:13130073}
Function	Does not function as sodium/D-glucose symporter (PubMed: 13130073, PubMed:20421923, PubMed:22766068). However, may function as a D-glucose sensor by generating a D-glucose-induced depolarization which is pH-independent, Na(+)-dependent at neutral pH and probably

	H(+)-dependent at acidic pH (PubMed:13130073, PubMed:17110502, PubMed:20421923, PubMed:22766068).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in skeletal muscle, where it may localize to the neuromuscular junction (at protein level) (PubMed:13130073) Expressed in small intestine where it may localize to cholinergic neurons of the submucosal plexus and myenteric plexus (at protein level) (PubMed:13130073). Detected in kidney (at protein level) (PubMed:22766068).

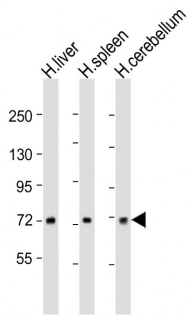
Background

Sodium-dependent glucose transporter.

References

Gorboulev V.,et al.Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.
Dunham I.,et al.Nature 402:489-495(1999).
Poppe R.,et al.Submitted (DEC-1995) to the EMBL/GenBank/DDBJ databases.

Images



All lanes : Anti-SLC5A4 Antibody (C-term) at 1:2000 dilution Lane 1: human liver lysates Lane 2: human spleen lysates Lane 3: human cerebellum lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 72 kDa Blocking/Dilution buffer: 5% NFDM/TBST.