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SLC6A14 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12976B

Product Information

Application	IHC-P-Leica, WB, E
Primary Accession	Q9UN76
Other Accession	NP_009162.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32462
Calculated MW	72153
Antigen Region	602-631

Additional Information

Gene ID	11254
Other Names	Sodium- and chloride-dependent neutral and basic amino acid transporter B(0+), Amino acid transporter ATB0+, Solute carrier family 6 member 14, SLC6A14
Target/Specificity	This SLC6A14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 602-631 amino acids from the C-terminal region of human SLC6A14.
Dilution	IHC-P-Leica~~1:500 WB~~1:1000 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	SLC6A14 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC6A14 (HGNC:11047)
Function	Amino acid transporter that plays an important role in the absorption of

	amino acids in the intestinal tract. Mediates the uptake of a broad range of neutral and cationic amino acids (with the exception of proline) in a Na(+)/Cl(-)-dependent manner (PubMed:10446133). Transports non-alpha-amino acids such as beta- alanine with low affinity, and has a higher affinity for dipolar and cationic amino acids such as leucine and lysine (PubMed:18599538). Can also transport carnitine, butirylcarnitine and propionylcarnitine coupled to the transmembrane gradients of Na(+) and Cl(-) (PubMed:17855766).
Cellular Location	Membrane; Multi- pass membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:Q9JMA9}; Multi-pass membrane protein
Tissue Location	Levels are highest in adult and fetal lung, in trachea and salivary gland. Lower levels detected in mammary gland, stomach and pituitary gland, and very low levels in colon, uterus, prostate and testis.

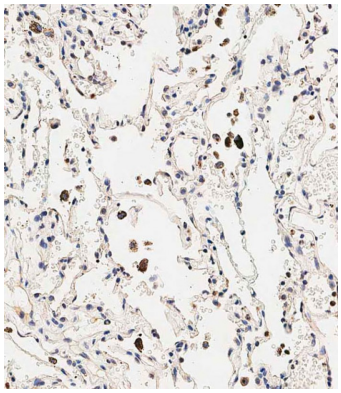
Background

This gene encodes a member of the solute carrier family 6. Members of this family are sodium and chloride dependent neurotransmitter transporters. The encoded protein transports both neutral and cationic amino acids. This protein may also function as a beta-alanine carrier. Mutations in this gene may be associated with X-linked obesity. A pseudogene of this gene is found on chromosome X.

References

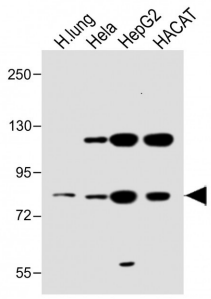
Bailey, S.D., et al. Diabetes Care (2010) In press :
Corpeleijn, E., et al. Obesity (Silver Spring) 18(7):1369-1377(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Anderson, C.M., et al. J. Physiol. (Lond.) 586 (PT 17), 4061-4067 (2008) :
Eriksson, A., et al. BMC Gastroenterol 8, 34 (2008) :

Images



Immunohistochemical analysis of paraffin-embedded human lung tissue using AP12976B performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

All lanes : Anti-SLC6A14 Antibody (C-term) at 1:1000 dilution Lane 1: Human lung lysate Lane 2: Hela whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: HACAT whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 80 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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