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SLC6A19 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22057b

Product Information

Application	WB, E
Primary Accession	Q695T7
Reactivity	Human, Rat, Mouse
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55081
Calculated MW	71110

Additional Information

Gene ID	340024
Other Names	Sodium-dependent neutral amino acid transporter B(0)AT1, Solute carrier family 6 member 19, System B(0) neutral amino acid transporter AT1, SLC6A19, B0AT1
Target/Specificity	This SLC6A19 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 544-575 amino acids from human SLC6A19.
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	SLC6A19 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC6A19
Synonyms	B0AT1
Function	Transporter that mediates resorption of neutral amino acids across the

	apical membrane of renal and intestinal epithelial cells (PubMed:15286787, PubMed:15286788, PubMed:18424768, PubMed:18484095, PubMed:19185582, PubMed:26240152). This uptake is sodium-dependent and chloride-independent (PubMed:15286787, PubMed:15286788, PubMed:19185582). Requires CLTRN in kidney or ACE2 in intestine for cell surface expression and amino acid transporter activity (PubMed:18424768, PubMed:19185582).
Cellular Location	Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Colocalizes with ACE2 on the apical membrane of cells lining villi of the jejunum, ileum and on kidney proximal tubules.
Tissue Location	Robust expression in kidney and small intestine, with minimal expression in pancreas (PubMed:15286787, PubMed:18424768) Also expressed in stomach, liver, duodenum, ileocecum, colon and prostate. Not detected in testis, whole brain, cerebellum, fetal liver, spleen, skeletal muscle, uterus, heart or lung

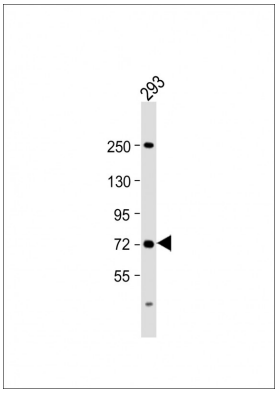
Background

Transporter that mediates epithelial resorption of neutral amino acids across the apical membrane of epithelial cells in the kidney and intestine. It appears that leucine is the preferred substrate, but all large neutral non-aromatic L-amino acids bind to this transporter. Uptake of leucine is sodium- dependent. In contrast to other members of the neurotransmitter transporter family, does not appear to be chloride-dependent (By similarity).

References

Kleta R.,et al.Nat. Genet. 36:999-1002(2004).
Seow H.F.,et al.Nat. Genet. 36:1003-1007(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Broer S.,et al.J. Clin. Invest. 118:3881-3892(2008).

Images



Anti-SLC6A19 Antibody (C-Term) at 1:2000 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 71 kDa Blocking/Dilution buffer: 5% NFDM/TBST.