10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC6A14 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51522

Product Information

Application	WB
Primary Accession	Q9UN76
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72153

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
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

Mediates the uptake of a broad range of neutral and cationic amino acids (with the exception of proline) in a Na(+)/Cl(-)-dependent manner.

References

Sloan J.L.,et al.J. Biol. Chem. 274:23740-23745(1999).
Ross M.T.,et al.Nature 434:325-337(2005).
Tiwari H.K.,et al.J. Clin. Invest. 112:1633-1636(2003).
Suviolahti E.,et al.J. Clin. Invest. 112:1762-1772(2003).

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