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SLC43A1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51663

Product Information

Application	WB, ICC
Primary Accession	O75387
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61477

Additional Information

Gene ID	8501
Other Names	Large neutral amino acids transporter small subunit 3, L-type amino acid transporter 3, Prostate cancer overexpressed gene 1 protein, Solute carrier family 43 member 1, SLC43A1 {ECO:0000312|EMBL:AAH016391}
Dilution	WB~~1:1000 ICC~~N/A
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	SLC43A1 {ECO:0000312|EMBL:AAH01639.1}
Function	Uniport that mediates the transport of neutral amino acids such as L-leucine, L-isoleucine, L-valine, and L-phenylalanine (PubMed:12930836). The transport activity is sodium ions-independent, electroneutral and mediated by a facilitated diffusion (PubMed:12930836).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q8BSM7}; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8BSM7}; Multi-pass membrane protein. Note=Located in the apical plasma membrane of the podocyte foot processes (PubMed:19443642). Located in the plasma membrane of liver and skeletal muscle, and in the endoplasmic reticulum and in crystalline inclusions in pancreatic acinar cells (By similarity). {ECO:0000250|UniProtKB:Q8BSM7, ECO:0000269|PubMed:19443642}
Tissue Location	Ubiquitously expressed in fetus and adult (PubMed:9722952). Highest expression in adult pancreas, liver, skeletal muscle (PubMed:12930836, PubMed:9722952). In fetus, highest expression in liver and lower levels in

kidney, and lung (PubMed:12930836) Exclusively expressed in the glomeruli along the glomerular capillary walls (PubMed:19443642).

Background

Sodium-independent, high affinity transport of large neutral amino acids. Has narrower substrate selectivity compared to SLC7A5 and SLC7A8 and mainly transports branched-chain amino acids and phenylalanine. Plays a role in the development of human prostate cancer, from prostatic intraepithelial neoplasia to invasive prostate cancer.

References

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Babu E.,et al.J. Biol. Chem. 278:43838-43845(2003).
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Skotheim R.I.,et al.Cancer Res. 62:2359-2364(2002).