

**SLC43A1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51663****Specification**

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**SLC43A1 Antibody - Product Information**

Application	WB, ICC, E
Primary Accession	<a href="#">O75387</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61 KDa

**SLC43A1 Antibody - 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}

**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

**SLC43A1 Antibody - 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:<a href="http://www.uniprot.org/citations/12930836" target="\_blank">12930836</a>). The transport activity is sodium ions-independent, electroneutral and mediated by a facilitated diffusion (PubMed:<a href="http://www.uniprot.org/citations/12930836" target="\_blank">12930836</a>).

**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:9722952, PubMed:12930836). 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).

**SLC43A1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SLC43A1 Antibody - Images****SLC43A1 Antibody - 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.

**SLC43A1 Antibody - References**

Cole K.A.,et al.Genomics 51:282-287(1998).  
Babu E.,et al.J. Biol. Chem. 278:43838-43845(2003).  
Chuaqui R.F.,et al.Urology 50:302-307(1997).  
Skotheim R.I.,et al.Cancer Res. 62:2359-2364(2002).