

**SLC43A1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17606c****Specification**

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**SLC43A1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O75387](#)**SLC43A1 Antibody (Center) Blocking Peptide - 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**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SLC43A1 Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **SLC43A1 Antibody (Center) Blocking Peptide - Images**

### **SLC43A1 Antibody (Center) Blocking Peptide - Background**

SLC43A1 belongs to the system L family of plasma membranecarrier proteins that transports large neutral amino acids (Babu et al., 2003 [PubMed 12930836]).

### **SLC43A1 Antibody (Center) Blocking Peptide - References**

Broer, S. Physiol. Rev. 88(1):249-286(2008) Babu, E., et al. J. Biol. Chem. 278(44):43838-43845(2003) Skotheim, R.I., et al. Cancer Res. 62(8):2359-2364(2002) Cole, K.A., et al. Genomics 51(2):282-287(1998) Chuaqui, R.F., et al. Urology 50(2):302-307(1997)