

**Product Name: SLC43A1 Rabbit Polyclonal Antibody****Catalog #: APRab17958**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000
<b>Molecular Weight</b>	61kDa

**Antigen Information**

<b>Gene Name</b>	SLC43A1 SLC43A1; LAT3; PB39; POV1; Large neutral amino acids transporter small subunit 3; L-type
<b>Alternative Names</b>	amino acid transporter 3; Prostate cancer overexpressed gene 1 protein; Solute carrier family 43 member 1
<b>Gene ID</b>	8501.0
<b>SwissProt ID</b>	O75387
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human LAT3. AA range:231-280

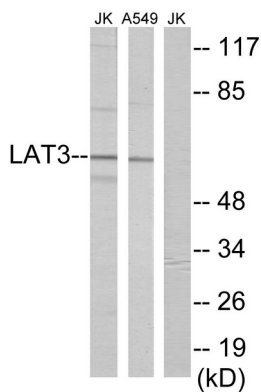
## Background

SLC43A1 belongs to the system L family of plasma membrane carrier proteins that transports large neutral amino acids (Babu et al., 2003 [PubMed 12930836]).[supplied by OMIM, Mar 2008],function: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.,miscellaneous:Up-regulated in early prostate cancer development with highest expression level in seminomas of testicular germ cell tumors.,similarity:Belongs to the SLC43A transporter (TC 2.A.1.44) family.,tissue specificity:In adults, found in all tissues examined with highest expression in pancreas. In fetus, highest expression in liver and lower levels in kidney, and lung. High levels found in prostate cancer cells.,

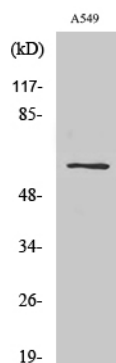
## Research Area

Amino Acids; Signal Transduction; Metabolism; Plasma Membrane; Channels; Pathways and Processes; Metabolic signaling pathways; Amino acid metabolism

## Image Data



Western blot analysis of lysates from A549 and Jurkat cells, using LAT3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using SLC43A1 Polyclonal Antibody