



# SLC43A1 Polyclonal Antibody

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| Catalog No         | BYab-00728                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactivity         | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applications       | WB;ELISA;IHC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Name          | SLC43A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Protein Name       | Large neutral amino acids transporter small subunit 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Immunogen          | The antiserum was produced against synthesized peptide derived from human LAT3. AA range:231-280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity        | SLC43A1 Polyclonal Antibody detects endogenous levels of SLC43A1 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dilution           | WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Synonyms           | SLC43A1; LAT3; PB39; POV1; 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                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Observed Band      | 61kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cell Pathway       | Membrane ; Multi-pass membrane protein .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Function           | 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 |

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pancreas. In fetus, highest expression in liver and lower levels in kidney, and lung. High levels found in prostate cancer cells.,

**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],

**matters needing attention**

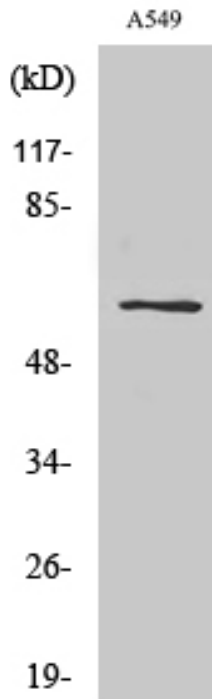
Avoid repeated freezing and thawing!

**Usage suggestions**

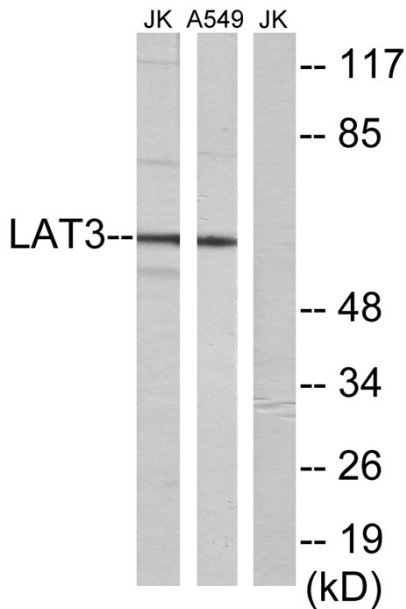
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



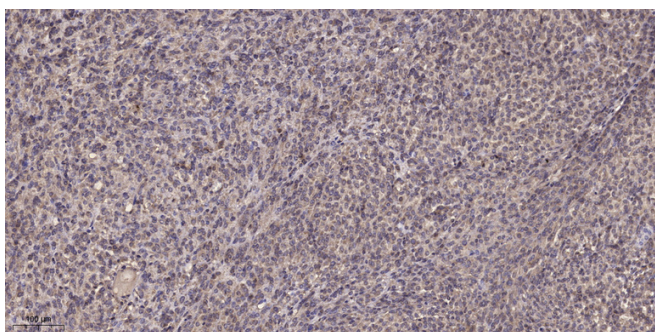
## Products Images



Western Blot analysis of various cells using SLC43A1 Polyclonal Antibody



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



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).