

LAT1 Rabbit pAb

CatalogNo: YN4984

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 56kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:1000-2000

| Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen Synthesized peptide derived from human LAT1 AA range: 145-195

Specificity This antibody detects endogenous levels of human LAT1

| Target Information

Gene name SLC7A5 CD98LC LAT1 MPE16

Protein Name	Large neutral amino acids transporter small subunit 1 (4F2 light chain) (4F2 LC) (4F2LC) (CD98 light chain) (Integral membrane protein E16) (L-type amino acid transporter 1) (hLAT1) (Solute carrier family 7 member 5) (y+ system cationic amino acid transporter)		
	Organism	Gene ID	UniProt ID
	Human	8140;	Q01650;
	Mouse	20539;	Q9Z127;
	Rat	20539;	Q63016;
Cellular Localization	Apical cell membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Located to the plasma membrane by SLC3A2/4F2hc (PubMed:9751058). Localized to the apical membrane of placental syncytiotrophoblastic cells (PubMed:11742812). Recruited to lysosomes by LAPTM4B (PubMed:25998567). Expressed in both luminal and abluminal membranes of brain capillary endothelial cells (By similarity). .		
Tissue specificity	Detected in placenta, in the syncytiotrophoblast layer (at protein level) (PubMed:11389679). Expressed abundantly in adult lung, liver, brain, skeletal muscle, placenta, bone marrow, testis, resting lymphocytes and monocytes, and in fetal liver. Weaker expression in thymus, cornea, retina, peripheral leukocytes, spleen, kidney, colon and lymph node. During gestation, expression in the placenta was significantly stronger at full-term than at the mid-trimester stage. Also expressed in all human tumor cell lines tested and in the astrocytic process of primary astrocytic gliomas. Expressed in retinal endothelial cells and in the intestinal epithelial cell line Caco-2.		

| Validation Data

| Contact information

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