

## 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

<b>Protein Name</b>	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)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">8140;</a>	<a href="#">Q01650;</a>
	Mouse	<a href="#">20539;</a>	<a href="#">Q9Z127;</a>
	Rat	<a href="#">20539;</a>	<a href="#">Q63016;</a>
<b>Cellular Localization</b>	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). .		
<b>Tissue specificity</b>	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

Orders: [order@immunoway.com](mailto:order@immunoway.com)  
 Support: [tech@immunoway.com](mailto:tech@immunoway.com)  
 Telephone: 877-594-3616 (Toll Free), 408-747-0185  
 Website: <http://www.immunoway.com>  
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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