

LAT1/SLC7A5 Rabbit pAb

Catalog NO.: A2833SP **3 Publications**

Basic Information

Observed MW

39 kDa

Calculated MW

55 kDa

Category

Polyclonal Antibodies

Applications

WB, IF/ICC, IF-F, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

Background

Enables L-leucine transmembrane transporter activity; L-tryptophan transmembrane transporter activity; and thyroid hormone transmembrane transporter activity. Involved in carboxylic acid transport; thyroid hormone transport; and xenobiotic transport. Located in cytosol; intracellular membrane-bounded organelle; and plasma membrane. Is integral component of membrane. Part of amino acid transport complex; apical plasma membrane; and microvillus membrane.

Recommended Dilutions

WB

1:2000 - 1:5000(Human);1:4000 -
1:30000(Mouse&Rat)

IF/ICC

1:200 - 1:400

IF-F

1:200 - 1:800

IHC-P

1:500 - 1:2000(Human);1:5000 -
1:20000(Mouse&Rat)

ELISA

Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your
specific assay requirements.For high-ratio
antibody dilutions (≥1:10000), a sequential
dilution method is strongly recommended to
ensure measurement accuracy.

Contact

Immunogen Information

Gene ID

8140/20539

Swiss Prot

Q01650/Q9Z127

Immunogen

This information is considered to be commercially sensitive.

Synonyms

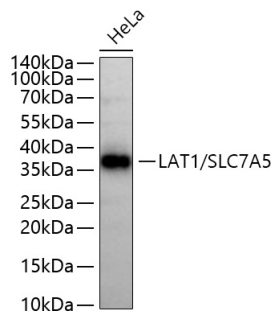
E16; CD98; LAT1; 4F2LC; MPE16; D16S469E; LAT1/SLC7A5

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C. Avoid freeze / thaw cycles.		
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.		

Validation Data



Western blot analysis of lysates from HeLa cells using LAT1/SLC7A5 Rabbit pAb (A2833SP) at 1:2000 dilution incubated overnight at 4°C.

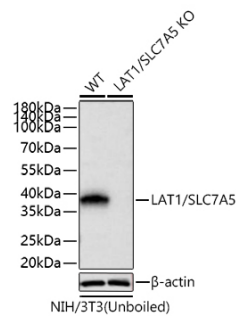
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 5 s.



Western blot analysis of lysates from wild type (WT) and LAT1/SLC7A5 knockout (KO) NIH/3T3 cells using LAT1/SLC7A5 Rabbit pAb (A2833SP) at 1:10000 dilution incubated overnight at 4°C.

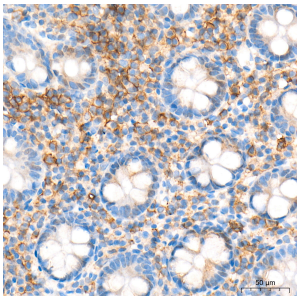
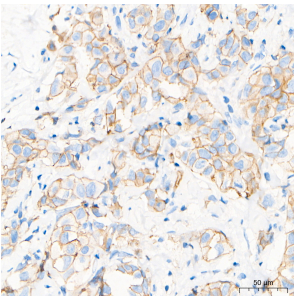
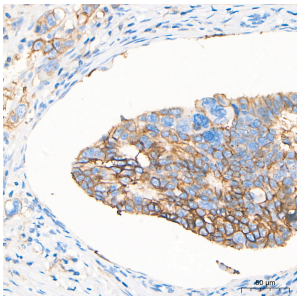
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 5 s.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Antibody | Protein | ELISA Kit | Enzyme | NGS | Service

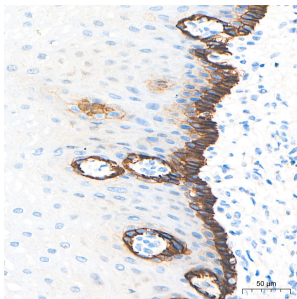
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human colon tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

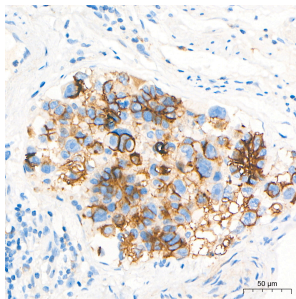
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Please visit <https://abclonal.com> for a complete list of recommended products.

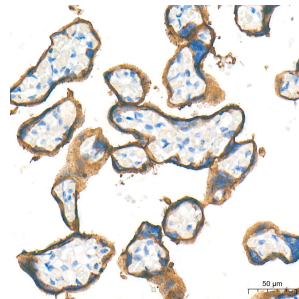
Validation Data



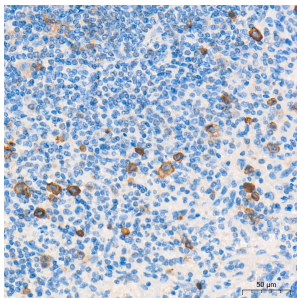
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



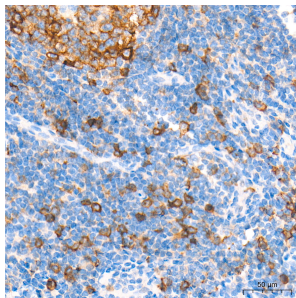
Immunohistochemistry analysis of paraffin-embedded Human oophoroma tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



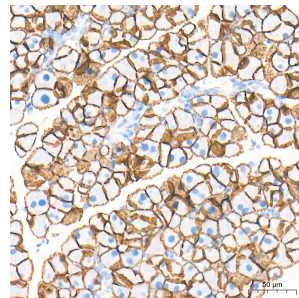
Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



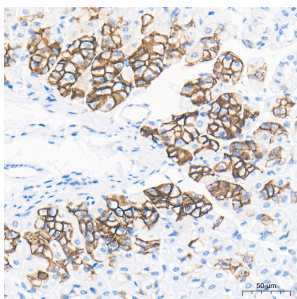
Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



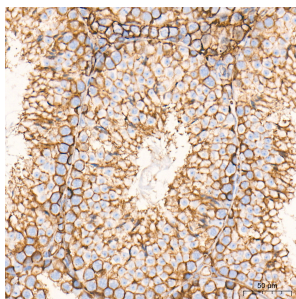
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



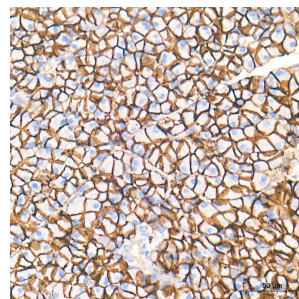
Immunohistochemistry analysis of paraffin-embedded Mouse pancreas tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse stomach tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:10000 (40x lens).



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:10000 (40x lens).



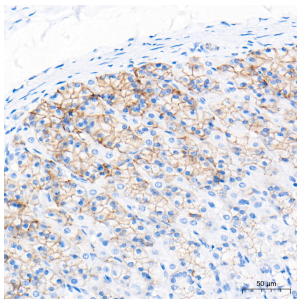
Immunohistochemistry analysis of paraffin-embedded Rat pancreas tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:10000 (40x lens).

lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

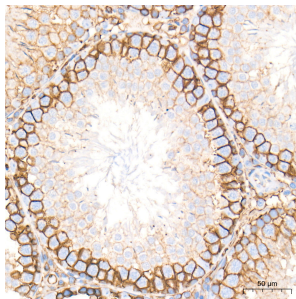
lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

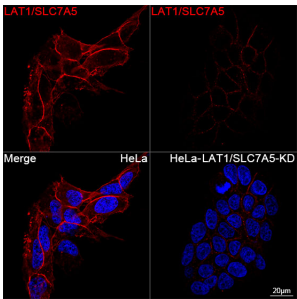
Validation Data



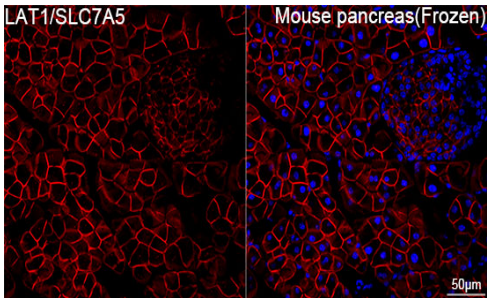
Immunohistochemistry analysis of paraffin-embedded Rat stomach tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



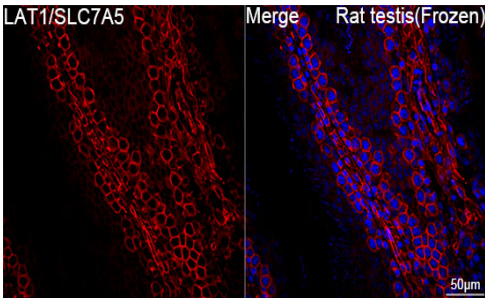
Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of HeLa cells and LAT1/SLC7A5 knockdown(KD) HeLa cells using LAT1/SLC7A5 Rabbit pAb (A2833SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of frozen sections of Mouse pancreas tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat testis tissue using LAT1/SLC7A5 Rabbit pAb (A2833SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

