

Rabbit SLC7A7 Polyclonal Antibody | anti-SLC7A7 antibody

Anti-SLC7A7 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127188	Rabbit	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SLC7A7; Polyclonal Antibody; Anti-SLC7A7 Antibody Picoband; anti-SLC7A7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-SLC7A7 antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human SLC7A7 recombinant protein (Position: M1-D498). Human SLC7A7 shares 90.8% and 91.6% amino acid (aa) sequence identity with mouse and rat SLC7A7, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



IF (Immunofluorescence)

Figure 4. IF analysis of SLC7A7 using anti-SLC7A7 antibody (AAA127188). SLC7A7 was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-SLC7A7 Antibody (AAA127188) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of SLC7A7 using anti-SLC7A7 antibody (AAA127188). SLC7A7 was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SLC7A7 Antibody (AAA127188) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of SLC7A7 using anti-SLC7A7 antibody (AAA127188). SLC7A7 was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SLC7A7 Antibody (AAA127188) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of SLC7A7 using anti-SLC7A7 antibody (AAA127188). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: rat heart tissue lysates, Lane 5: rat brain tissue lysates, Lane 6: mouse heart tissue lysates, Lane 7: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SLC7A7 antigen affinity purified polyclonal antibody (#AAA127188) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SLC7A7 at approximately 60 kDa. The expected band size for SLC7A7 is at 56 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC7A7 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-SLC7A7 antibody	Primary Antibodies
References	1. Borsani, G., Bassi, M. T., Sperandeo, M. P., De Grandi, A., Buoninconti, A., Riboni, M., Manzoni, M., Incerti, B., Pepe, A., Andria, G., Ballabio, A., Sebastio, G. SLC7A7, encoding a putative permease-related protein, is mutated in patients with lysinuric protein intolerance. Nature Genet. 21: 297-301, 1999. 2. Font-Llitjos, M., Rodriguez-Santiago, B., Espino, M., Sillue, R., Manas, S., Gomez, L., Perez-Jurado, L. A., Palacin, M., Nunes, V. Novel SLC7A7 large rearrangements in lysinuric protein intolerance patients involving the same AluY repeat. Europ. J. Hum. Genet. 17: 71-79, 2009. 3. Mykkanen, J., Torrents, D., Pineda, M., Camps, M., Yoldi, M. E., Horelli-Kuitunen, N., Huoponen, K., Heinonen, M., Oksanen, J., Simell, O., Savontaus, M.-L., Zorzano, A., Palacin, M., Aula, P. Functional analysis of novel mutations in y+LAT-1 amino acid transporter gene causing lysinuric protein intolerance (LPI). Hum. Molec. Genet. 9: 431-438, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	186910306
NCBI GeneID	9056
NCBI Accession #	NP_001119577.1
NCBI GenBank Nucleotide #	NM_001126105.2
UniProt Accession #	Q9UM01 ; O95984 ; Q53XC1 ; Q86U07 ; Q9P2V5 ; B2RAU0 ; D3DS26
Molecular Weight	56.0kDa
NCBI Official Full Name	Y+L amino acid transporter 1
NCBI Official Synonym Full Names	solute carrier family 7 member 7
NCBI Official Symbol	SLC7A7
NCBI Official Synonym Symbols	LPI; LAT3; MOP-2; Y+LAT1; y+LAT-1
NCBI Protein Information	Y+L amino acid transporter 1
UniProt Protein Name	Y+L amino acid transporter 1
UniProt Gene Name	SLC7A7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/slc7a7-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/127188>