

Rabbit SLC3A1 Polyclonal Antibody | anti-SLC3A1 antibody

Anti-SLC3A1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126240	Rabbit	Human, Monkey, Mouse, Rat	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

SLC3A1; Polyclonal Antibody; Anti-SLC3A1 Antibody Picoband; anti-SLC3A1 antibody

PRODUCT SPECIFICATIONS

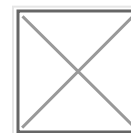
Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SLC3A1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human SLC3A1 recombinant protein (Position: K70-R665).
Preparation and Storage	Store 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



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U2OS cells using anti-SLC3A1 antibody (AAA126240). Overlay histogram showing U2OS cells stained with AAA126240 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC3A1 Antibody (AAA126240, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of SLC3A1 using anti-SLC3A1 antibody (AAA126240). 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: monkey COS-7 whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: rat NRK whole cell lysates, Lane 4: mouse HBZY whole cell 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-SLC3A1 antigen affinity purified polyclonal antibody (#AAA126240) at 0.5 ug/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 SLC3A1 at approximately 110 kDa. The expected band size for SLC3A1 is at 79 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC3A1 antibody	Neutral and basic amino acid transport protein rBAT is a protein that in humans is encoded by the SLC3A1 gene. This gene encodes a type II membrane glycoprotein which is one of the components of the renal amino acid transporter which transports neutral and basic amino acids in the renal tubule and intestinal tract. Mutations and deletions in this gene are associated with cystinuria. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.
Product Categories/Family for anti-SLC3A1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	68303923
NCBI GeneID	6519
UniProt Accession #	Q07837; O00658; Q15295; Q52M92; Q52M94; A8K0S1
Molecular Weight	78,852 Da
NCBI Official Full Name	SLC3A1 variant G
NCBI Official Synonym Full Names	solute carrier family 3 (amino acid transporter heavy chain), member 1
NCBI Official Symbol	SLC3A1
NCBI Official Synonym Symbols	D2H; ATR1; NBAT; RBAT; CSNU1
NCBI Protein Information	neutral and basic amino acid transport protein rBAT; SLC3A1 variant B; SLC3A1 variant C; SLC3A1 variant D; SLC3A1 variant E; SLC3A1 variant F; SLC3A1 variant G; amino acid transporter 1; solute carrier family 3 member 1; B(0,+)-type amino acid transport p
UniProt Protein Name	Neutral and basic amino acid transport protein rBAT
UniProt Gene Name	SLC3A1
UniProt Synonym Gene Names	RBAT; NBAT
UniProt Entry Name	SLC31_HUMAN

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/slc3a1-antibody-western-blot-flow-cytometry-elisa/126240>