

Rabbit anti-Human Dopamine Transporter/SLC6A3 Polyclonal Antibody | anti-SLC6A3 antibody

Anti-Dopamine Transporter/SLC6A3 Antibody Picoband

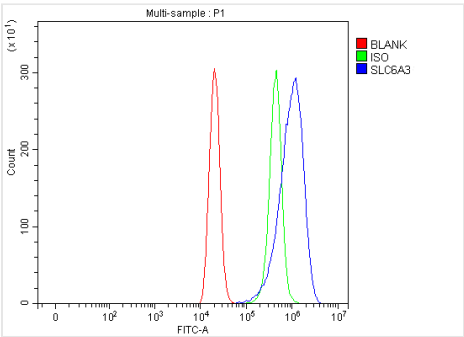
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126015	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Dopamine Transporter/SLC6A3; Polyclonal Antibody; Anti-Dopamine Transporter/SLC6A3 Antibody Picoband; anti-SLC6A3 antibody

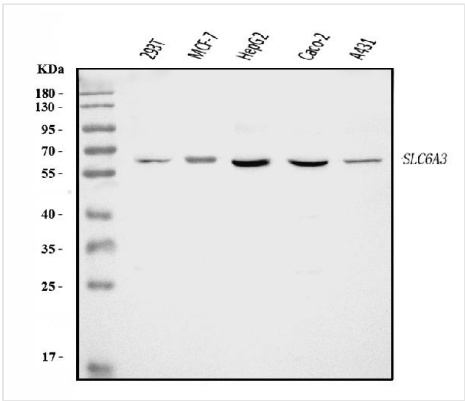
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
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-SLC6A3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Dopamine Transporter/SLC6A3 recombinant protein (Position: M1-V620).
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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of THP-1 cells using anti-Dopamine Transporter/SLC6A3 antibody (AAA126015).Overlay histogram showing THP-1 cells stained with AAA126015 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Dopamine Transporter/SLC6A3 Antibody (AAA126015, 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 Dopamine Transporter/SLC6A3 using anti-Dopamine Transporter/SLC6A3 antibody (AAA126015).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 293T whole cell lysates,Lane 2: human MCF-7 whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human Caco-2 whole cell lysates,Lane 5: human A431 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-Dopamine Transporter/SLC6A3 antigen affinity purified polyclonal antibody (#AAA126015) 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 Dopamine Transporter/SLC6A3 at approximately 68 kDa. The expected band size for Dopamine Transporter/SLC6A3 is at 68 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC6A3 antibody	This gene encodes a dopamine transporter which is a member of the sodium- and chloride-dependent neurotransmitter transporter family. The 3' UTR of this gene contains a 40 bp tandem repeat, referred to as a variable number tandem repeat or VNTR, which can be present in 3 to 11 copies. Variation in the number of repeats is associated with idiopathic epilepsy, attention-deficit hyperactivity disorder, dependence on alcohol and cocaine, susceptibility to Parkinson disease and protection against nicotine dependence.
Product Categories/Family for anti-SLC6A3 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507041
NCBI GeneID	6531
NCBI Accession #	NP_001035.1
NCBI GenBank Nucleotide #	NM_001044.4
UniProt Accession #	Q01959; Q14996; A2RUN4
Molecular Weight	68,495 Da
NCBI Official Full Name	sodium-dependent dopamine transporter
NCBI Official Synonym Full Names	solute carrier family 6 (neurotransmitter transporter, dopamine), member 3
NCBI Official Symbol	SLC6A3
NCBI Official Synonym Symbols	DAT; DAT1; PKDYS
NCBI Protein Information	sodium-dependent dopamine transporter; DA transporter; solute carrier family 6 member 3

UniProt Protein Name	Sodium-dependent dopamine transporter
UniProt Gene Name	SLC6A3
UniProt Synonym Gene Names	DAT1; DA transporter; DAT
UniProt Entry Name	SC6A3_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/dopamine-transporter-slc6a3-antibody-flow-cytometry-western-blot-elisa/126015>