

Rabbit anti-Human, Mouse SLC22A3 Polyclonal Antibody | anti-SLC22A3 antibody

Anti-SLC22A3 Antibody

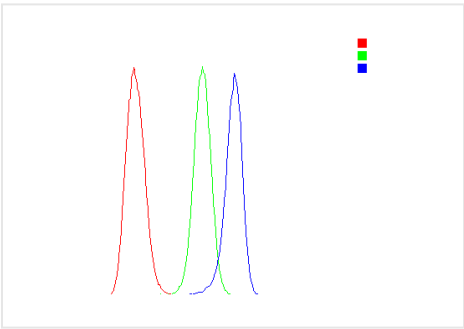
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125731	Rabbit	Human, Mouse	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

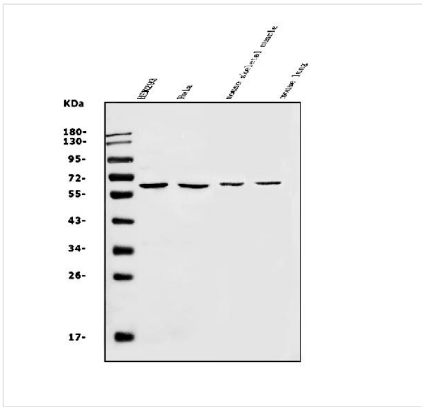
SLC22A3; Polyclonal Antibody; Anti-SLC22A3 Antibody; EMTH; OCT3; Solute carrier family 22 member 3; Extraneuronal monoamine transporter; EMT; Organic cation transporter 3; solute carrier family 22(extraneuronal monoamine transporter); member 3; anti-SLC22A3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for SLC22A3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-SLC22A3 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human SLC22A3 (FDEALQRVGEFGRFQRR).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of Hela cells using anti-SLC22A3 antibody (AAA125731). Overlay histogram showing Hela cells stained with AAA125731 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC22A3 Antibody (AAA125731, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/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 SLC22A3 using anti-SLC22A3 antibody (AAA125731). 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 50µg of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates Lane 2: human Hela whole cell lysates Lane 3: mouse skeletal muscle tissue lysates Lane 4: mouse lung tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-SLC22A3 antigen affinity purified polyclonal antibody (Catalog # AAA125731) at 0.5 µg/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 SLC22A3 at approximately 61KD. The expected band size for SLC22A3 is at 61KD.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC22A3 antibody	Solute carrier family 22(extraneuronal monoamine transporter), member 3, also known as SLC22A3 or OCT3 is a protein that in humans is encoded by the SLC22A3 gene. This gene is mapped to 6q25.3. Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. This gene mediates potential-dependent transport of a variety of organic cations. It may play a significant role in the disposition of cationic neurotoxins and neurotransmitters in the brain.
References	1. Lazar, A., Grundemann, D., Berkels, R., Taubert, D., Zimmermann, T., Schomig, E. Genetic variability of the extraneuronal monoamine transporter EMT (SLC22A3). J. Hum. Genet. 48: 226-230, 2003. 2. Nagano, T., Mitchell, J. A., Sanz, L. A., Pauler, F. M., Ferguson-Smith, A. C., Feil, R., Fraser, P. The Air noncoding RNA epigenetically silences transcription by targeting G9a to chromatin. Science 322: 1717-1720, 2008. 3. Sleutels, F., Zwart, R., Barlow, D. P. The non-coding Air RNA is required for silencing autosomal imprinted genes. Nature 415: 810-813, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11415038
NCBI GeneID	6581
NCBI Accession #	NP_068812.1
NCBI GenBank Nucleotide #	NM_021977.3
UniProt Accession #	O75751; Q5SYN6; Q9UP02
Molecular Weight	61,280 Da
NCBI Official Full Name	solute carrier family 22 member 3
NCBI Official Synonym Full Names	solute carrier family 22 (extraneuronal monoamine transporter), member 3

NCBI Official Symbol	SLC22A3
NCBI Official Synonym Symbols	EMT; EMTH; OCT3
NCBI Protein Information	solute carrier family 22 member 3; organic cation transporter 3; EMT organic cation transporter 3; extraneuronal monoamine transporter
UniProt Protein Name	Solute carrier family 22 member 3
UniProt Gene Name	SLC22A3
UniProt Synonym Gene Names	EMTH; OCT3; EMT
UniProt Entry Name	S22A3_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/slc22a3-antibody-flow-cytometry-western-blot-elisa/125731>