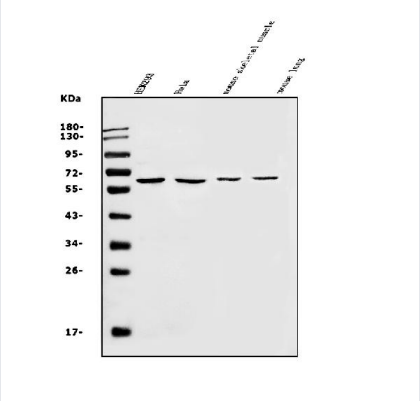
SLC22A3 Antibody – Rabbit Polyclonal

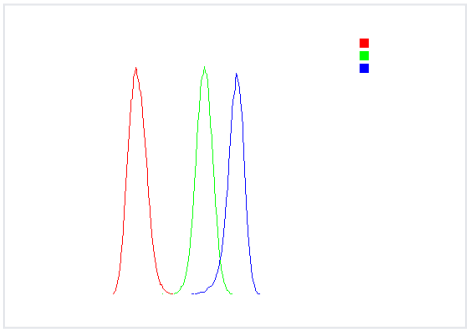
PRODUCT OVERVIEW

Product Name	SLC22A3, Polyclonal Antibody
Full Product Name	Anti-SLC22A3 Antibody
Product Gene Name	anti-SLC22A3 antibody
Product Synonym Names	SLC22A3; 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
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for SLC22A3 detection.
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.
Molecular Weight	61,280 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (160769405..160873611). Location: 6q25.3
OMIM	604842
3D Structure	ModBase 3D Structure for O75751
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||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SLC22A3 antibody	Western Blot (WB), Flow Cytometry (FC/FACS/FCM)
Application Notes for anti-SLC22A3 antibody	WB: 0.25-0.5ug/ml|Human, Mouse| FC/FACS/FCM: 1-3ug/1x106 cells|Human|
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.

Product References and Citations for anti-SLC22A3 antibody	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.
Other Notes	Small volumes of anti-SLC22A3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC22A3 purchase	MBS1753676 is an antibody targeting SLC22A3. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-SLC22A3 antibody
Figure 1. Western blot analysis of SLC22A3 using anti-SLC22A3 antibody (MBS1753676).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 50ug of sample under reducing conditions.Lane 1: human HEK293 whole cell lysatesLane 2: human Hela whole cell lysatesLane 3: mouse skeletal muscle tissue lysatesLane 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 # MBS1753676) at 0. 5 ?g/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 (Catalog # MBS176460) with Tanon 5200 system. A specific band was detected for SLC22A3 at approximately 61KD. The expected band size for SLC22A3 is at 61KD.



Flow Cytometry (FC/FACS) of anti-SLC22A3 antibody
Figure 2. Flow Cytometry analysis of Hela cells using anti-SLC22A3 antibody (MBS1753676).Overlay histogram showing Hela cells stained with MBS1753676 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC22A3 Antibody (MBS1753676, 1?g/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10?g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1?g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC22A3. It may not necessarily be applicable to this product.

NCBI GI #	11415038
NCBI GeneID	6581
NCBI Accession #	NP_068812.1
UniProt Primary Accession #	O75751
UniProt Secondary Accession #	Q5SYN6; Q9UP02
UniProt Related Accession #	O75751
GenBank Nucleotide #	NM_021977.3
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
UniProt Protein Name	Solute carrier family 22 member 3
UniProt Synonym Protein Names	Extraneuronal monoamine transporter; EMT; Organic cation transporter 3
Protein Family	Solute carrier family
UniProt Gene Name	SLC22A3
UniProt Synonym Gene Names	EMTH; OCT3; EMT
UniProt Entry Name	S22A3_HUMAN
NCBI Protein Information	solute carrier family 22 member 3; organic cation transporter 3; EMT organic cation transporter 3; extraneuronal monoamine transporter
NCBI Summary for SLC22A3	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 is one of three similar cation transporter genes located in a cluster on chromosome 6. The encoded protein contains twelve putative transmembrane domains and is a plasma integral membrane protein. [provided by RefSeq, Jul 2008]
UniProt Comments for SLC22A3	SLC22A3: Mediates potential-dependent transport of a variety of organic cations. May play a significant role in the disposition of cationic neurotoxins and neurotransmitters in the brain. Belongs to the major facilitator (TC 2.A.1) superfamily. Organic cation transporter (TC 2.A.1.19) family. Protein type: Transporter, SLC family; Membrane protein, multi-pass; Transporter; Membrane protein, integral Chromosomal Location of Human Ortholog: 6q25.3 Cellular Component: membrane; integral to plasma membrane; plasma membrane Molecular Function: protein binding; toxin transporter activity; organic cation transmembrane transporter activity; dopamine transmembrane transporter activity; quaternary ammonium group transmembrane transporter activity Biological Process: dopamine transport; organic cation transport; histamine uptake; quaternary ammonium group transport; regulation of appetite; multidrug transport; transmembrane transport
Research Articles on SLC22A3	**1.** PDLIM5 (rs17021918,T), SLC22A3 (rs9364554,C) and NKX3-1 (rs1512268,A) SNPs might not be associated with prostate cancer in Chinese men.
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