

Rabbit anti-Human SLC22A1 Polyclonal Antibody | anti-SLC22A1 antibody

SLC22A1 Antibody (C-term)

CATALOG # AAA287190	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

SLC22A1; Polyclonal Antibody; SLC22A1 Antibody (C-term); Solute carrier family 22 member 1; Organic cation transporter 1; hOCT1; OCT1; anti-SLC22A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SLC22A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 511-539 amino acids from the C-terminal region of human SLC22A1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	511-539
Sequence Length	353
Applicable Applications for anti-SLC22A1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Translocates a broad array of organic cations with various structures and molecular weights including the model compounds 1-methyl-4-phenylpyridinium (MPP), tetraethylammonium (TEA), N-1-methylnicotinamide (NMN), 4-(4-(dimethylamino)styryl)- N-methylpyridinium (ASP), the endogenous compounds choline, guanidine, histamine, epinephrine, adrenaline, noradrenaline and dopamine, and the drugs quinine, and metformin. The transport of organic cations is inhibited by a broad array of compounds like tetramethylammonium (TMA), cocaine, lidocaine, NMDA receptor antagonists, atropine, prazosin, cimetidine, TEA and NMN, guanidine, cimetidine, choline, procainamide, quinine, tetrabutylammonium, and tetrapentylammonium. Translocates organic cations in an electrogenic and pH-independent manner. Translocates organic cations across the plasma membrane in both directions. Transports the polyamines spermine and spermidine. Transports pramipexole across the basolateral membrane of the proximal tubular epithelial cells. The choline transport is activated by MMTS. Regulated by various intracellular signaling pathways including inhibition by protein kinase A activation, and endogenously activation by the calmodulin complex, the calmodulin- dependent kinase II and LCK tyrosine kinase.
Cellular Location	Basolateral cell membrane; Multi-pass membrane protein
Tissue Location	Widely expressed with high level in liver. Isoform 1 and isoform 2 are expressed in liver. Isoform 1, isoform 2, isoform 3 and isoform 4 are expressed in glial cell lines
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
SLC22A1 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SLC22A1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
SLC22A1 Antibody (C-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the SLC22A1 antibody detected the SLC22A1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-SLC22A1 antibody	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. Two transcript variants encoding two different isoforms have been found for this gene, but only the longer variant encodes a functional transporter. [provided by RefSeq].
Product Categories/Family for anti-SLC22A1 antibody	Metabolism; Signal Transduction
References	Takahashi, N., et al. J. Hum. Genet. 55(11):731-737(2010) Jablonski, K.A., et al. Diabetes 59(10):2672-2681(2010) Hu, M., et al. Pharmacogenet. Genomics 20(10):634-637(2010) Gambineri, A., et al. J. Clin. Endocrinol. Metab. 95 (10), E204-E208 (2010) : Becker, M.L., et al. Neurogenetics (2010) In press :

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506999
NCBI GeneID	6580
NCBI Accession #	NP_003048.1; NP_694857.1
NCBI GenBank Nucleotide #	NM_003057.2
UniProt Accession #	O15245; O15395; Q9NQD4; A6NFF3; A8K1H2; C9JSU6
Molecular Weight	61154
NCBI Official Full Name	solute carrier family 22 member 1 isoform a
NCBI Official Synonym Full Names	solute carrier family 22 (organic cation transporter), member 1
NCBI Official Symbol	SLC22A1
NCBI Official Synonym Symbols	OCT1; HOCT1; oct1_cds
NCBI Protein Information	solute carrier family 22 member 1
UniProt Protein Name	Solute carrier family 22 member 1
UniProt Gene Name	SLC22A1
UniProt Synonym Gene Names	OCT1; hOCT1
UniProt Entry Name	S22A1_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/slc22a1-antibody-immunohistochemistry-western-blot-elisa/287190>