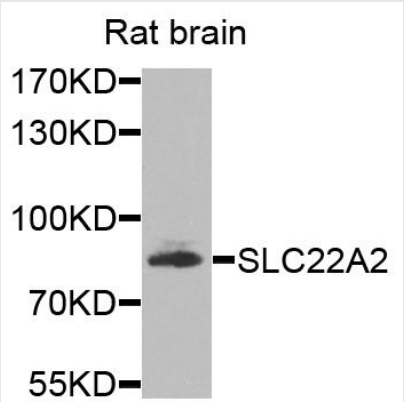
SLC22A2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC22A2, Polyclonal Antibody
Full Product Name	SLC22A2 Polyclonal Antibody
Product Gene Name	anti-SLC22A2 antibody
Product Synonym Names	OCT2;
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	Observed MW: 80kDa Calculated MW: 26kDa/54kDa/62kDa
OMIM	602608
3D Structure	ModBase 3D Structure for O15244
Immunogen	Recombinant protein of human SLC22A2
Category Primary	antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLC22A2 antibody	Western Blot (WB)
Application Notes for anti-SLC22A2 antibody	WB 1:500 - 1:2000
Related Product Information for anti-SLC22A2 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. It is found primarily in the kidney, where it may mediate the first step in cation reabsorption.
Other Notes	Small volumes of anti-SLC22A2 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 SLC22A2 purchase	MBS9128659 is an antibody targeting SLC22A2. Also known as SLC22A2 Polyclonal Antibody. Reactive in Human, Rat. Host: Rabbit.



Western Blot (WB) of anti-SLC22A2 antibody
Western blot analysis of extracts of rat brain, using SLC22A2 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC22A2. It may not necessarily be applicable to this product.

NCBI GI #	302148518
NCBI GeneID	6582
NCBI Accession #	NP_003049.2
UniProt Primary Accession #	O15244
UniProt Secondary Accession #	Q5T7Q6; Q6PIQ8; Q8NG62; Q9NQB9
UniProt Related Accession #	O15244
GenBank Nucleotide #	NM_003058.3
NCBI Official Full Name	solute carrier family 22 member 2
NCBI Official Synonym Full Names	solute carrier family 22 (organic cation transporter), member 2
NCBI Official Symbol	SLC22A2
NCBI Official Synonym Symbols	OCT2
UniProt Protein Name	Solute carrier family 22 member 2
UniProt Synonym Protein Names	Organic cation transporter 2; hOCT2
Protein Family	Solute carrier family
UniProt Gene Name	SLC22A2
UniProt Synonym Gene Names	OCT2; hOCT2
UniProt Entry Name	S22A2_HUMAN
NCBI Protein Information	solute carrier family 22 member 2

UniProt Comments for SLC22A2	SLC22A2: Mediates tubular uptake of organic compounds from circulation. Mediates the influx of agmatine, dopamine, noradrenaline (norepinephrine), serotonin, choline, famotidine, ranitidine, histamin, creatinine, amantadine, memantine, acriflavine, 4-[4-(dimethylamino)-styryl]-N-methylpyridinium ASP, amiloride, metformin, N-1-methylnicotinamide (NMN), tetraethylammonium (TEA), 1-methyl-4-phenylpyridinium (MPP), cimetidine, cisplatin and oxaliplatin. Cisplatin may develop a nephrotoxic action. Transport of creatinine is inhibited by fluoroquinolones such as DX-619 and LVFX. This transporter is a major determinant of the anticancer activity of oxaliplatin and may contribute to antitumor specificity. Belongs to the major facilitator (TC 2.A.1) superfamily. Organic cation transporter (TC 2.A.1.19) family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter; Membrane protein, multi-pass; Transporter, SLC family; Membrane protein, integral Chromosomal Location of Human Ortholog: 6q25.3 Cellular Component: membrane; integral to plasma membrane; basolateral plasma membrane; plasma membrane Molecular Function: organic cation transmembrane transporter activity; quaternary ammonium group transmembrane transporter activity; steroid binding; choline transmembrane transporter activity Biological Process: histamine transport; synaptic transmission; quaternary ammonium group transport; organic cation transport; neurotransmitter secretion; multidrug transport; choline transport; body fluid secretion; transmembrane transport; neurotransmitter biosynthetic process
Research Articles on SLC22A2	**1.** The functional OCT2 Ser270Ala polymorphism is significantly associated with abstinence among treatment-seeking smokers.
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