10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC22A7 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12142

Product Information

Application	WB, IHC
Primary Accession	Q9Y694
Other Accession	NM_153320, NP_696961
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60026

Additional Information

Gene ID	10864
Alias Symbol	MGC24091, MGC45202, NLT, OAT2
Other Names	Solute carrier family 22 member 7, Novel liver transporter, Organic anion transporter 2, hOAT2, SLC22A7, NLT, OAT2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-SLC22A7 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	SLC22A7 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

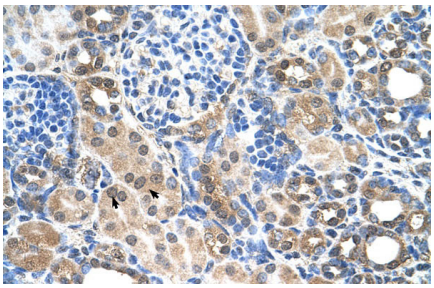
Name	SLC22A7 (HGNC:10971)
Synonyms	NLT, OAT2
Function	[Isoform 2]: Functions as a Na(+)-independent bidirectional multispecific transporter (PubMed:11327718, PubMed:18216183, PubMed:21446918, PubMed:28945155). Contributes to the renal and hepatic elimination of endogenous organic compounds from the systemic circulation into the urine and bile, respectively (PubMed:11327718, PubMed:25904762). Capable of transporting a wide range of purine and pyrimidine nucleobases, nucleosides and nucleotides, with cGMP, 2'deoxyguanosine and GMP being the preferred substrates (PubMed:11327718, PubMed:18216183, PubMed:26377792,

	PubMed:28945155). Functions as a pH- and chloride-independent cGMP bidirectional facilitative transporter that can regulate both intracellular and extracellular levels of cGMP and may be involved in cGMP signaling pathways (PubMed:18216183, PubMed:26377792). Mediates orotate/glutamate bidirectional exchange and most likely display a physiological role in hepatic release of glutamate into the blood (PubMed:21446918). Involved in renal secretion and possible reabsorption of creatinine (PubMed:25904762, PubMed:28945155). Able to uptake prostaglandin E2 (PGE2) and may contribute to PGE2 renal excretion (Probable). Also transports alpha-ketoglutarate and urate (PubMed:11327718, PubMed:26377792). Apart from the orotate/glutamate exchange, the counterions for the uptake of other SLC22A7/OAT2 substrates remain to be identified (PubMed:26377792).
Cellular Location	[Isoform 2]: Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Localized to the basolateral side of the proximal tubules (PubMed:12023506, PubMed:25904762). Apical side of the renal tubule (PubMed:25904762).
Tissue Location	Mainly expressed in liver and kidney (PubMed:11327718, PubMed:18216183, PubMed:21446918, PubMed:25904762) In kidney, expressed in proximal tubular cells (PubMed:25904762). Also expressed in pancreas, small intestine, spinal cord, lung, brain and heart (PubMed:18216183). Expressed in fetal liver (PubMed:21446918)

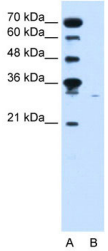
References

Kimura,K.,(2006)GenomeRes.16(1),55-65ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Images



Human kidney



WB Suggested Anti-SLC22A7 Antibody Titration: 0.2-1 µg/ml
Positive Control: Jurkat cell lysate
There is BioGPS gene expression data showing that SLC22A7 is expressed in Jurkat

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.