

SLC22A7 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12142**Specification**

SLC22A7 antibody - C-terminal region - Product Information

Application	IHC, WB
Primary Accession	O9Y694
Other Accession	NM_153320 , NP_696961
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted Host	Horse, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 26kDa KDa

SLC22A7 antibody - C-terminal region - 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.

SLC22A7 antibody - C-terminal region - 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

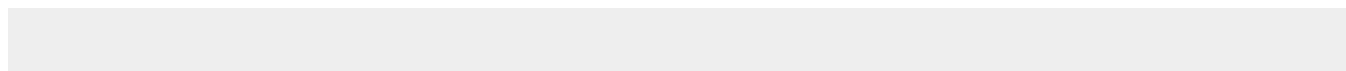
Mainly expressed in liver and kidney (PubMed:11327718, PubMed:18216183, PubMed:21446918, PubMed:25904762) In kidney, expressed in proximal tubular cells (PubMed:25904762). Also expressed in pancreas, small intestine, spinal cord, lung, brain and heart (PubMed:18216183). Expressed in fetal liver (PubMed:21446918)

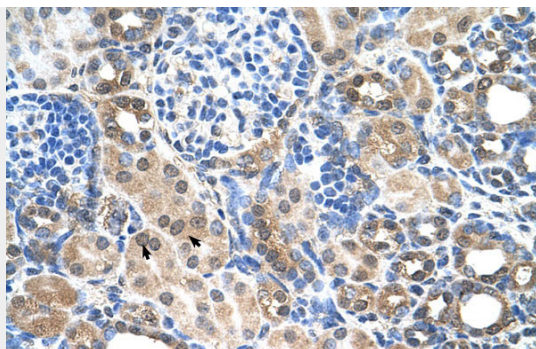
SLC22A7 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

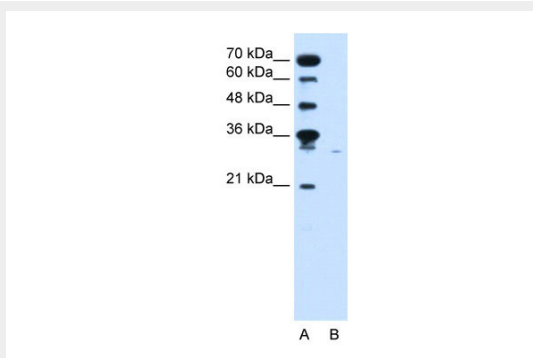
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC22A7 antibody - C-terminal region - 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

SLC22A7 antibody - C-terminal region - References

Kimura, K., (2006) Genome Res. 16(1), 55-65. Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.