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SLC22A7 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57670

Specification

SLC22A7 Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q9Y694
Reactivity	**Rat, Pig, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**60026**

SLC22A7 Polyclonal Antibody - Additional Information

Gene ID 10864

Other Names
Solute carrier family 22 member 7, Novel liver transporter, Organic anion transporter 2, hOAT2, SLC22A7, NLT, OAT2

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

SLC22A7 Polyclonal Antibody - 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:<a

href="http://www.uniprot.org/citations/26377792" target="_blank">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 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC22A7 Polyclonal Antibody - Images

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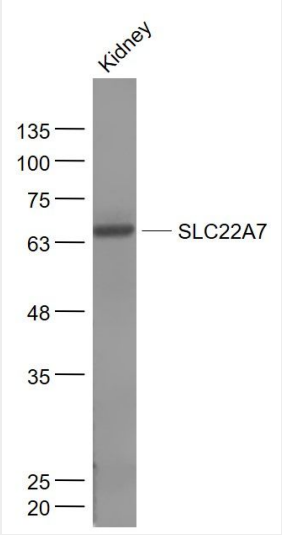

Sample:
Kidney (Mouse) Lysate at 40 ug
Primary: Anti- SLC22A7 (bs-19808R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 60 kD
Observed band size: 64 kD