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Datasheet for 600-401-R18

SLC22A6/OAT1 Antibody

Overview

Description:	Anti-SLC22A6/OAT1 (RABBIT) Antibody - 600-401-R18
Item No.:	600-401-R18
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Rat
Host Species:	Rabbit

Product Details

Background:	SLC22A6(Solute carrier family 22 (organic anion transporter), member 6), also called OAT1 or PAHT, is a protein that in humans is encoded by the SLC22A6 gene, which is also a member of the organic anion transporter (OAT) family of proteins. OAT1 is a transmembrane protein that is expressed in the brain, the placenta, the eyes, smooth muscles, and the basolateral membrane of proximal tubular cells of the kidneys. The SLC22A6 gene is mapped on 11q12.3. It plays a central role in renal organic anion transport. Along with OAT3, OAT1 mediates the uptake of a wide range of relatively small and hydrophilic organic anions from plasma into the cytoplasm of the proximal tubular cells of the kidneys. The SLC22A6 gene contains 10 exons and spans 8.2 kb. OAT1 functions as organic anion exchanger. When the uptake of one molecule of an organic anion is transported into a cell by an OAT1 exchanger, one molecule of an endogenous dicarboxylic acid (such as glutarate, ketoglutarate, etc) is simultaneously transported out of the cell. PAH uptake in Xenopus oocytes injected with OAT1 mRNA was demonstrated by Race et al. This antibody is suitable for researchers interested in cancer research.
Synonyms:	Organic anion transporter 1,
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SLC22A6
Reactivity:	Human, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	SLC22A6/OAT1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a sequence at the C-terminal of human SLC22A6/OAT1.
Purity/Specificity:	Anti-SLC22A6/OAT1 antibody is directed against human SLC22A6/OAT1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human and rat based on homology for the immunogen sequence. Cross reactivity with SLC22A6/OAT1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q4U2R8 • GeneID - 9356 • NCBI - NP_004781.2

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-SLC22A6/OAT1 is tested for Immunohistochemistry-P and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~61.8 kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:100-1:500
WB:	0.5µg/mL

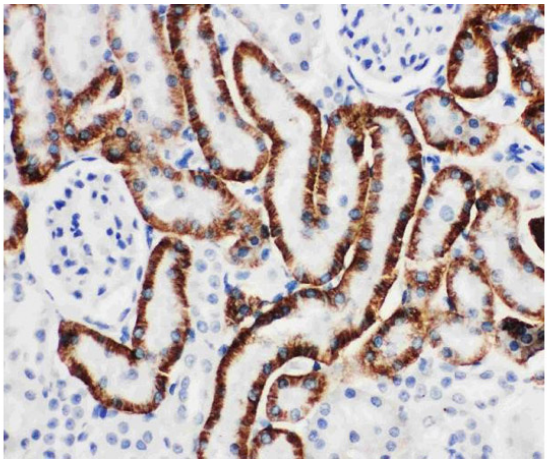
Formulation

Physical State:	Lyophilized
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3
Preservative:	0.05mg Thimerosal
Stabilizer:	5mg BSA
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

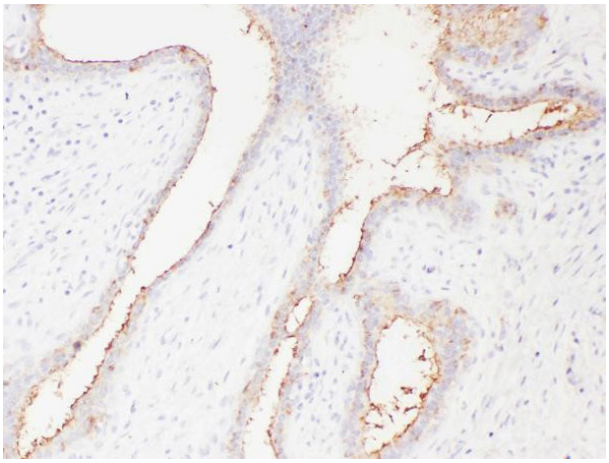
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

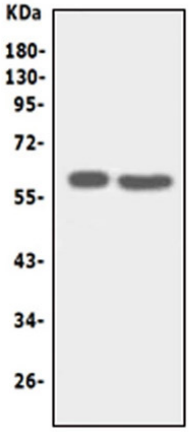
Images



Immunohistochemistry
Immunohistochemistry analysis of Anti-SLC22A6 antibody. Tissue: Rat Kidney Tissue. IHC(P).



Immunohistochemistry
Immunohistochemistry analysis of Anti-SLC22A6 using anti-SLC22A6 antibody. SLC22A6 was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-SLC22A6 antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



Western Blot
Western Blot analysis of Anti-SLC22A6 antibody.
Lane 1: HT1080 Cell Lysate, Lane 2: HeLa Cell Lysate.

Disclaimer

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