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Anti Human Organic Anion Transporter 1 (OAT1) Polyclonal Antibody

To eliminate the drug, xenobiotics, a varirety of endogeneous substances, and their metabolites out of the body, specific membrane proteins named transporters are required. There are two major pathways for the elimination, hepatic one through bile and renal one to urine. The transporter fall into various transport systems by the transportative substrate. In particular, oraganic ion transporter family is comprised of organic anion transport family (OAT), oraganic cation transport family (OCT), OCTN/carnitine transport family, and OAT are multispecific organic anion transpoters, the substrates of which include a lot of both endogeneous and exogeneous anions .

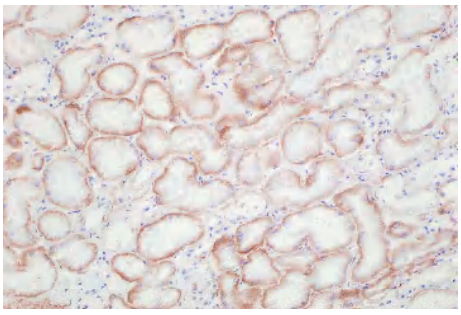
Human Organic anion transporter 1(OAT1) encodes a 563 amino acid residue protein, and which is predicted 12 putative membrane-spanning protein. Human OAT1 was found to be expressed predominantly in the kidney and only weakly in the brain. OAT1 mediates the Na^+-independent transport of organic anions, such as PAH (ρ -aminohippurate), cyclic nucleotides, prostanoides, dicaroxylates, and many anion drugs.

This antibody has been proved to be useful for immunohistochemistry .

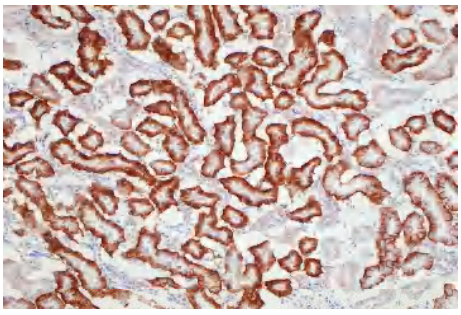
Package Size	25 μ g (250 μ L / vial)
Format	Rabbit polyclonal antibody 0.1 mg/mL
Buffer	Block Ace as a stabilizer, containing 0.1%Proclin as bacteriostat
Storage	Store below -20℃ Once thawed, store at 4℃. Repeated freeze-thaw cycles should be avoided.
Purification method	This antibody was purified from rabbit serum immunized with synthesized C-end peptide of human OAT1 by peptide affinity chromatography.
Working dilution for immunohistochemistry	5 μ g/mL

HGNC Name SLC22A6 (solute carrier superfamily 22A6)

*HGNC：Human Gene Nomenclature Committee



Human Kidney (frozen section)



Rat Kidney(frozen section)

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【Reference】

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6. Endou H.:Molecular mechanisms of drug transport. *Folia Pharmacol. Jpn.* 116. 114-124, 2000

Supplier

SCETI K.K.

3-6-7 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013, JAPAN

Tel +81(3) 5510-2347 Fax +81(3) 5510-0133

URL: http://www.sceti.jp/export/ e-mail: exp-pet@sceti.co.jp