

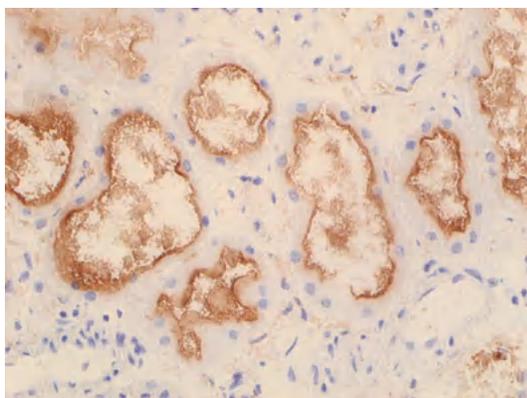
## Anti Human Organic Anion Transporter 4 (OAT4) Polyclonal Antibody

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

Human organic anion transporter 4 (OAT4) encodes a 550 amino acid residue protein, and is predicted 12 putative membrane-spanning protein. OAT4 mediates the high-affinity  $\text{Na}^+$ -independent transport of estrone sulfate, dehydroepiandrosterone (DHEA) sulfate, and ochratoxin A,  $\rho$ -aminohippurate (PAH). OAT4 is expressed in the kidney and placenta. OAT4 might be responsible for the elimination and detoxification of harmful anionic substances from the fetus.

This antibody has been proved to be useful for immunohistochemistry .

Package Size	20 $\mu\text{g}$ (200 $\mu\text{L}$ / vial)
Format	Rabbit polyclonal antibody 0.1 mg/mL
Buffer	Block Ace as a stabilizer, containing 0.1%Proclin as bacteriostat
Storage	Store below $-20^{\circ}\text{C}$ Once thawed, store at $4^{\circ}\text{C}$ . Repeated freeze-thaw cycles should be avoided.
Purification method	This antibody was purified from rabbit serum immunized with synthesized C-end peptide of human OAT4 by peptide affinity chromatography.
Working dilution for immunohistochemistry:	1-5 $\mu\text{g}/\text{mL}$



Human Kidney (frozen section)

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### 【Reference】

- 1 Sekine T., Cha S.H., Kanai Y.and Endou H.:Molecular biology of multispecific organic anion transporter family (OAT family). *Clin.Exp.Nephrol.*3.237-243,1999
- 2 Sekine T., Cha S.H.and Endou H.:The multispecific organic anion transporter (OAT) family. *pflugers Arch-Eur.J.Physiol.*440.337-350,2000
- 3 Cha S.H., Sekine T., Kusuhara H., Yu E., Kim J.Y., Kim D.Y., Sugiyama Y., Kanai Y. and Endou H.: Molecular cloning and characterization of multispecific organic anion transport 4 expressed in the placenta. *J. Biol. Chem.* 275.4507-4512, 2000

### Supplier

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