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Anti Human Organic Anion Transporter 2 (OAT2) Polyclonal Antibody

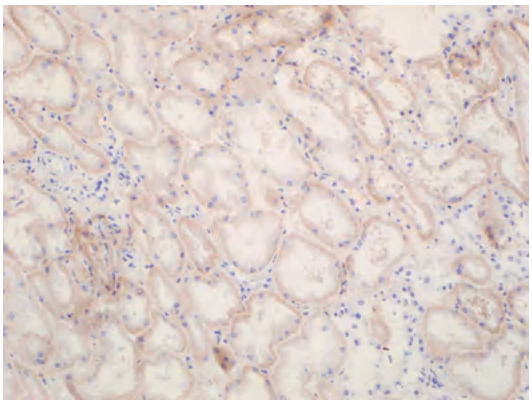
To eliminate the drug, xenobiotics, a varirety of endogeneous substances, and their metabolites out of the body, specific membrane proteins named transporters are required. There are two major pathways for the elimination, hepatic one through bile and renal one to urine. The transporter fall into various 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 .

Organic anion transporter 2 (OAT2) is predicted 12 putative membrane-spanning protein, and which is expressed predominantly in the liver and only weakly in the kidney. OAT2 mediates the Na^+-independent transport of organic anions, such as salicylate, and also mediates the transport of prostaglandin E_2 (PGE_2), methotrexate, acetylsalicylate and PAH (ρ -aminohippurate).

This 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 OAT2 by peptide affinity chromatography.
Working dilution for immunohistochemistry	5 μ g/mL
HGNC Name	SLC722A7 (solute carrier family 22A7)

*HGNC：Human Gene Nomenclature Committee



Human Kidney (frozen section)

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【Reference】

1 Sekine T., Cha S.H., Tsuda M., Apiwattanakul N., Nakajima N., Kanai Y., Endou H.:Identification of multispecific organic anion transporter 2 expressed predominantly in the liver. *FEBS Letters* 429 .179-182, 1998

2 Sekine T., Cha S.H., Kanai Y.and Endou H.:Molecular biology of multispecific organic anion transporter family (OAT family). *Clin.Exp.Nephlrol*.3.237-243, 1999

3 Sekine T., Cha S.H.and Endou H.:The multispecific organic anion transporter (OAT) family. *pflugers Arch-Eur.J.Physiol*.440.337-350,2000

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