Code No. KAL-KE035-EX

For research use only

Anti Rat Organic Anion Transporter 3 (OAT3) Polyclonal Antibody, Rabbit

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, 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, 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.

Rat organic anion transporter 3 (OAT3) encodes a 536 amino acid residue protein, of which molecular weight is 130kDa. OAT3 is expressed in the kidney, liver, brain, and eye. OAT3 mediated the uptake of organic anions, such as PAH (ρ -aminohippurate), ochratoxin A and estrone sulfate, cimetidine, and prostaglandin E_2.

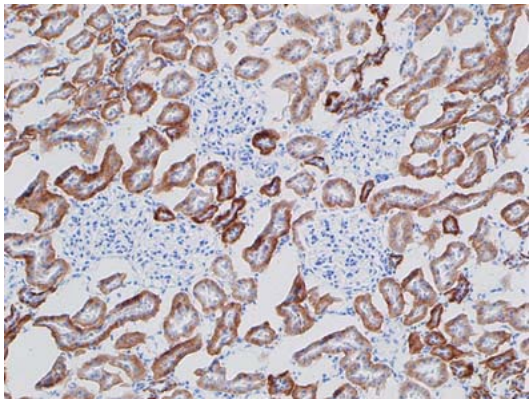
This antidody has been proved to be useful for immunohistochemistry.

Package Size	25 μ g (250 μ L / vial)
Format	Rabbit polyclonal antibody 0.1mg/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 rat OAT3 by peptide affinity chromatography.

Working dilution for imunoihistochemistry: 2-5 μ g/mL

HGNC name	SLC22A8 (solute carrier family 22A8)

*HGNC: Human Gene Nomenclature Committee



Rat Kidney (frozen section)

Basal lamina side of renal tubule are positively stained.

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【Reference】

1 Kusuhara H., Sekine T., Utsunomiya-Tate N., Tsuda M., Kojima R., Cha S.H., Sugiyama., Kanai Y.and Endou H.:Molecular cloning and characterization of new multispecific organic anion transporter from rat brain. *J.Biol.Chem*.274 (19) 13675-13680, 1999

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

4 Kojima R., Sekine T., Kawachi M., Cha S.H., Suzuki Y. and Endou H.: Immunolocalization of Multispecific Organic Anion Transporters, OAT1, OAT2, and OAT3 in Rat Kidney. *J.Am.Soc.Nephrol*. in press

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