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Rabbit Anti-OAT-3 antibody

SL0609R

Product Name	OAT-3
Chinese Name	阴离子 Transporter-3 抗体
Alias	Organic anion transporter 3; hOAT3; OAT3; SLC22A8; Solute carrier family 22 member 8; S22A8_RAT.
Research Area	Cell biology immunology Transporter
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse, (predicted: Human, Rat, Rabbit,)
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	59kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from rat OAT-3: 31-110/536
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	Human organic anion transporter (OAT) 3 (SLC22A8) is localized to the basolateral membranes of renal tubular epithelial cells and plays a critical role in the excretion of anionic compounds. Recent advances in molecular biology have identified three organic anion transporter families: the organic anion

transporter (OAT) family encoded by SLC22A, the organic anion transporting peptide (OATP) family encoded by SLC21A (SLCO), and the multidrug resistance-associated protein (MRP) family encoded by ABCC. These families play critical roles in the transepithelial transport of organic anions in the kidneys as well as in other tissues such as the liver and brain. Among these families, the OAT family plays the central role in renal organic anion transport. Knowledge of these three families at the molecular level, such as substrate selectivity, tissue distribution, and gene localization, is rapidly increasing.

Function:
Plays an important role in the excretion/detoxification of endogenous and exogenous organic anions, especially from the brain and kidney. Involved in the transport basolateral of steviol, fexofenadine. Transports benzylpenicillin (PCG), estrone-3-sulfate (E1S), cimetidine (CMD), 2,4-dichloro-phenoxyacetate (2,4-D), p-amino-hippurate (PAH), acyclovir (ACV) and ochratoxin (OTA).

Subcellular Location:
Basolateral cell membrane; Multi-pass membrane protein (Potential). Note=Localizes on the brush border membrane of the choroid epithelial cells. Localizes to the basolateral membrane of the proximal tubular cells. Localizes on the abluminal and possibly, luminal membrane of the brain capillary endothelial cells (BCEC) (By similarity).

Tissue Specificity:
Expressed in kidney.

Similarity:
Belongs to the major facilitator (TC 2.A.1) superfamily. Organic cation transporter (TC 2.A.1.19) family.

SWISS:
Q8HY24

Gene ID:
83500

Database links:

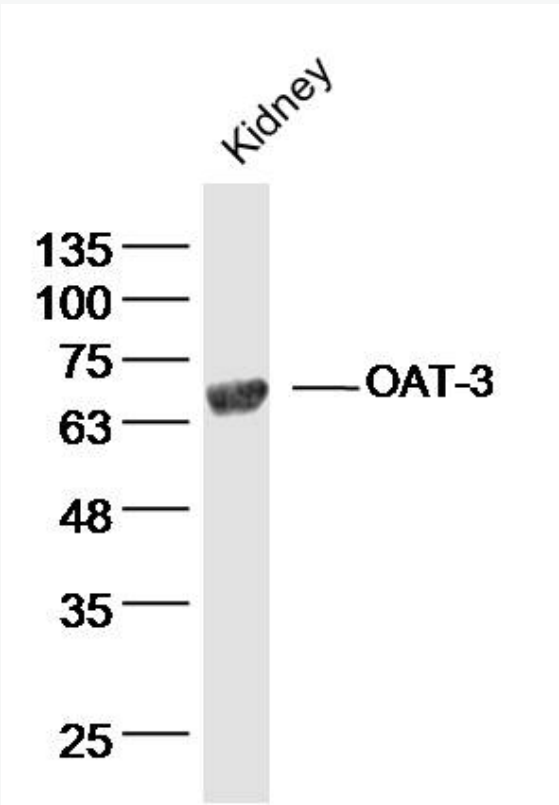
Entrez Gene: 9376 Human

- Entrez Gene: 19879 Mouse
- Omim: 607581 Human
- SwissProt: Q8TCC7 Human

- SwissProt: O88909 Mouse
- SwissProt: Q8HY24 Rabbit
- Unigene: 266223 Human
- Unigene: 285294 Mouse

OAT3 阴离子 Transporter 是一类分布广泛的膜蛋白，通过介导 Cl－／HCO－3 跨膜转运参与细胞内 pH、细胞体积及细胞内氯离子浓度的调节。

Product Picture



Sample:Kidney (Mouse) Lysate at 40 ug

Primary: Anti-OAT-3 (SL0609R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 59 kD

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Observed band size: 65 kD