SunLong Biotech Co.,LTD
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Rabbit Anti-OAT1 / SLC22A6 antibody

SL0606R

Product Name	OAT1 / SLC22A6
Chinese Name	阴离子 Transporter-1 抗体
Alias	Organic anion transporter 1; OAT1; OAT-1; solute carrier family 22 (organic anion transporter), member 6; FLJ55736; HOAT1; MGC124962; MGC45260; mOat1; NKT; Oat; Orctl1; PAHT; ROAT1; SLC22A6; S22A6_HUMAN.
Research Area	Transporter
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat,
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	62kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human OCT-1: 285-550/550 <Cytoplasmic>
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

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:
Involved in the renal elimination of endogenous and exogenous organic anions. Functions as organic anion exchanger when the uptake of one molecule of organic anion is coupled with an efflux of one molecule of endogenous dicarboxylic acid (glutarate, ketoglutarate, etc). Mediates the sodium-independent uptake of 2,3-dimercapto-1-propanesulfonic acid (DMPS) (By similarity). Mediates the sodium-independent uptake of p-aminohippurate (PAH), ochratoxin (OTA), acyclovir (ACV), 3'-azido-3-'deoxythymidine (AZT), cimetidine (CMD), 2,4-dichloro-phenoxyacetate (2,4-D), hippurate (HA), indoleacetate (IA), indoxyl sulfate (IS) and 3-carboxy-4-methyl-5-propyl-2-furanpropionate (CMPF), cidofovir, adefovir, 9-(2-phosphonylmethoxyethyl) guanine (PMEG), 9-(2-phosphonylmethoxyethyl) diaminopurine (PMEDAP) and edaravone sulfate. PAH uptake is inhibited by p-chloromercuribenzenesulphonate (PCMBS), diethyl pyrocarbonate (DEPC), sulindac, diclofenac, carprofen, glutarate and okadaic acid (By similarity). PAH uptake is inhibited by benzothiazolylcysteine (BTC), S-chlorotrifluoroethylcysteine (CTFC), cysteine S-conjugates S-dichlorovinylcysteine (DCVC), furosemide, steviol, phorbol 12-myristate 13-acetate (PMA), calcium ionophore A23187, benzylpenicillin, furosemide, indomethacin, bumetamide, losartan, probenecid, phenol red, urate, and alpha-ketoglutarate.

Subcellular Location:
Cell membrane; Multi-pass membrane protein.

Tissue Specificity:
Strongly expressed in kidney and to a lower extent in liver, skeletal muscle, brain and placenta. Found at the basolateral membrane of the proximal tubule.

Post-translational modifications:
Glycosylated. Glycosylation at Asn-113 may occur at a secondary level. Glycosylation is necesssary for proper targeting of the transporter to the plasma membrane.

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

SWISS:
Q4U2R8

Gene ID:
9356

Database links:

Entrez Gene: 9356 Human

Entrez Gene: 18399 Mouse

Entrez Gene: 29509 Rat

Omim: 607582 Human

SwissProt: Q4U2R8 Human

SwissProt: Q8VC69 Mouse

SwissProt: O35956 Rat

Unigene: 369252 Human

Unigene: 30090 Mouse

Unigene: 87849 Rat

OAT1 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。SL0607R 为抗大、小鼠。

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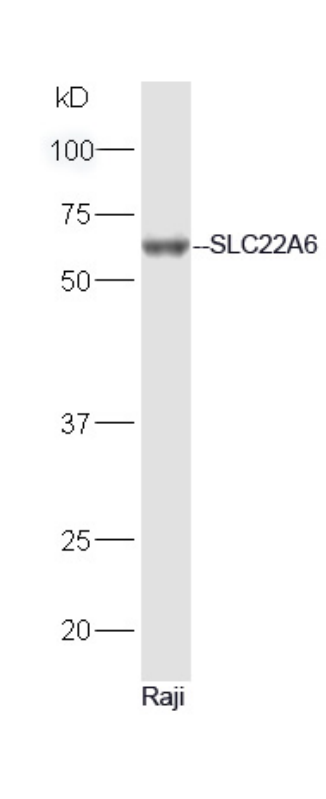
Product Picture



Sample: Raji Cell lysate at 30 ug;

Primary:Anti-SLC22A6 (SL0606R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1: 5000 dilution;

Predicted band size: 62 kD

Observed band size: 62 kD

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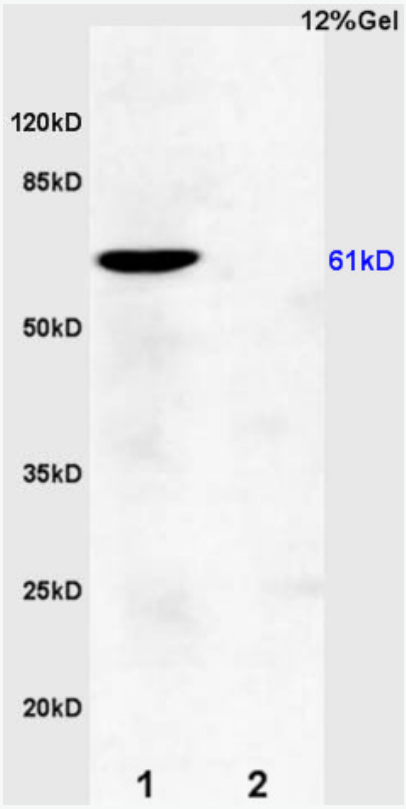

Sample:

Kidney(Human) lysate at 30ug;

Brain(Rat) lysate at 30ug;

Primary: Anti-OAT-1/SLC22A6(human) (SL0606R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0295G-HRP) at 1: 3000 dilution;

Predicted band size : 62kD

Observed band size : 61kD

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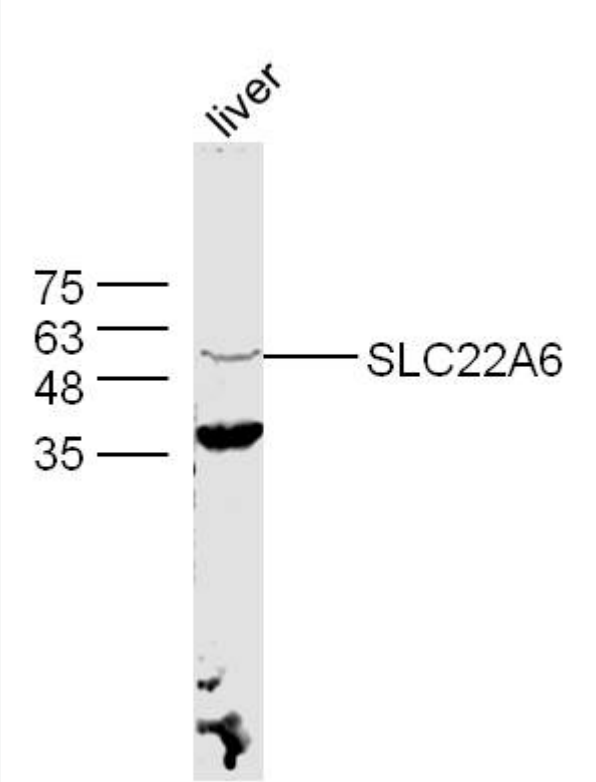

Sample:

Liver (Mouse) Lysate at 40 ug

Primary: Anti-SLC22A6 (SL0606R) at 1/300 dilution

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

Predicted band size: 62 kD

Observed band size: 62 kD

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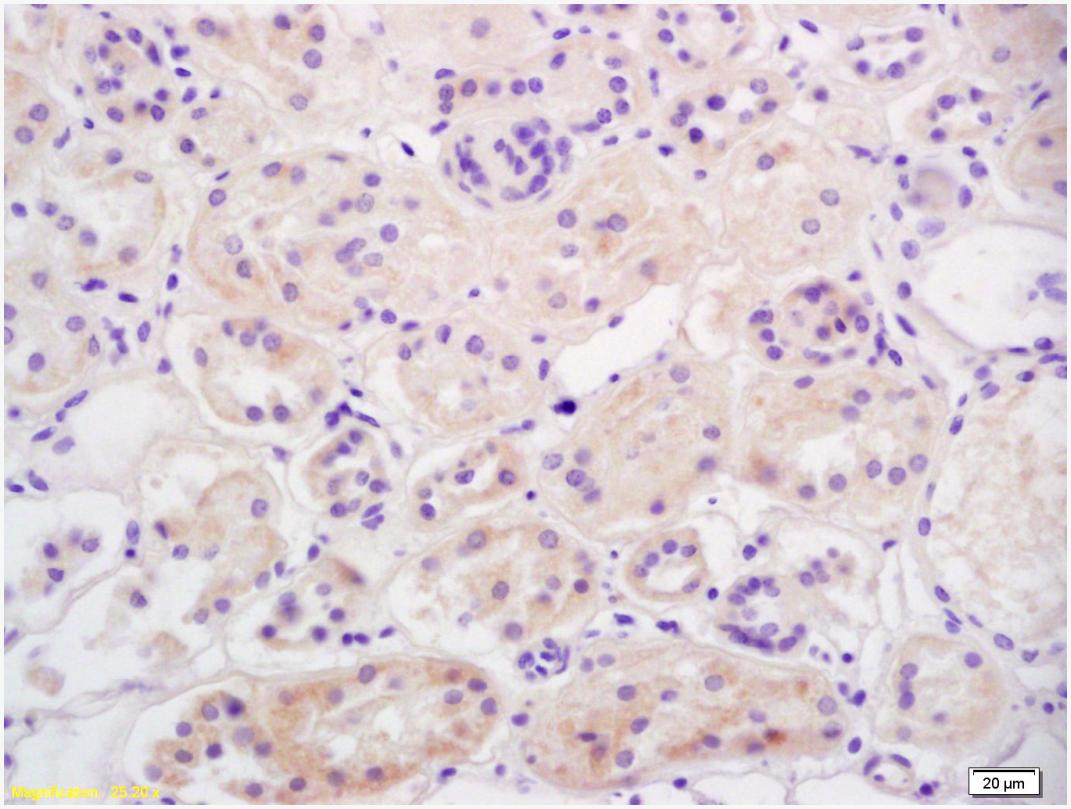

Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-OAT-1/SLC22A6(human) Polyclonal Antibody, Unconjugated(SL0606R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining