

Anti-OATP2 Antibody

Rabbit polyclonal antibody to OATP2
Catalog # AP61003

Product Information

Application	WB
Primary Accession	Q9Y6L6
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76449

Additional Information

Gene ID	10599
Other Names	LST1; OATP1B1; OATP2; OATPC; SLC21A6; Solute carrier organic anion transporter family member 1B1; Liver-specific organic anion transporter 1; LST-1; OATP-C; Sodium-independent organic anion-transporting polypeptide 2; OATP-2; Solute carrier family 21 member 6
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human OATP2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

Protein Information

Name	SLCO1B1
Synonyms	LST1, OATP1B1, OATP2, OATPC, SLC21A6
Function	Mediates the Na(+)-independent uptake of organic anions (PubMed: 10358072 , PubMed: 15159445 , PubMed: 17412826). Shows broad substrate specificity, can transport both organic anions such as bile acid taurocholate (cholyltaurine) and conjugated steroids (dehydroepiandrosterone 3-sulfate, 17-beta-glucuronosyl estradiol, and estrone 3-sulfate), as well as eicosanoids (prostaglandin E2, thromboxane B2, leukotriene C4, and leukotriene E4), and thyroid hormones (T4/L-thyroxine, and T3/3',5'-triiodo-L-thyronine) (PubMed: 10358072 , PubMed: 10601278 , PubMed: 10873595 , PubMed: 11159893 , PubMed: 12196548 , PubMed: 12568656 , PubMed: 15159445 , PubMed: 15970799 ,

PubMed:[16627748](#), PubMed:[17412826](#), PubMed:[19129463](#), PubMed:[26979622](#)). Can take up bilirubin glucuronides from plasma into the liver, contributing to the detoxification-enhancing liver-blood shuttling loop (PubMed:[22232210](#)). Involved in the clearance of endogenous and exogenous substrates from the liver (PubMed:[10358072](#), PubMed:[10601278](#)). Transports coproporphyrin I and III, by-products of heme synthesis, and may be involved in their hepatic disposition (PubMed:[26383540](#)). May contribute to regulate the transport of organic compounds in testes across the blood-testis-barrier (Probable). Can transport HMG-CoA reductase inhibitors (also known as statins), such as pravastatin and pitavastatin, a clinically important class of hypolipidemic drugs (PubMed:[10601278](#), PubMed:[15159445](#), PubMed:[15970799](#)). May play an important role in plasma and tissue distribution of the structurally diverse chemotherapeutic drug methotrexate (PubMed:[23243220](#)). May also transport antihypertension agents, such as the angiotensin-converting enzyme (ACE) inhibitor prodrug enalapril, and the highly selective angiotensin II AT1-receptor antagonist valsartan, in the liver (PubMed:[16624871](#), PubMed:[16627748](#)). Shows a pH-sensitive substrate specificity towards prostaglandin E2 and T4 which may be ascribed to the protonation state of the binding site and leads to a stimulation of substrate transport in an acidic microenvironment (PubMed:[19129463](#)). Hydrogencarbonate/HCO₃(-) acts as the probable counteranion that exchanges for organic anions (PubMed:[19129463](#)).

Cellular Location

Basolateral cell membrane; Multi-pass membrane protein. Basal cell membrane; Multi-pass membrane protein. Note=Detected in basolateral membranes of hepatocytes (PubMed:12196548). Localized to the basal membrane of Sertoli cells (PubMed:35307651).

Tissue Location

Highly expressed in liver, at the basolateral membranes of centrilobular hepatocytes (PubMed:10358072, PubMed:10601278, PubMed:10873595, PubMed:12196548, PubMed:22232210) Expressed in liver (at protein level) (PubMed:[15159445](#)). Expressed in fetal liver (PubMed:10873595). Not detected in heart, brain, placenta, lung, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, small intestine, colon and leukocyte (PubMed:10358072, PubMed:10873595). In testis, primarily localized to the basal membrane of Sertoli cells and weakly expressed in Leydig cells and within the tubules (PubMed:35307651).

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human OATP2. The exact sequence is proprietary.

Images



Western blot analysis of OATP2 expression in LO2 (A) whole cell lysates.

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