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SLCO1B3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18964b

Product Information

Application	WB, E
Primary Accession	Q9NPD5
Other Accession	NP_062818.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	77403
Antigen Region	639-668

Additional Information

Gene ID	28234
Other Names	Solute carrier organic anion transporter family member 1B3, Liver-specific organic anion transporter 2, LST-2, Organic anion transporter 8, Organic anion-transporting polypeptide 8, OATP-8, Solute carrier family 21 member 8, SLCO1B3, LST2, OATP1B3, OATP8, SLC21A8
Target/Specificity	This SLCO1B3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 639-668 amino acids from the C-terminal region of human SLCO1B3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SLCO1B3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLCO1B3
Synonyms	LST2, OATP1B3, OATP8, SLC21A8

Function	Mediates the Na(+)-independent uptake of organic anions (PubMed:10779507, PubMed:15159445, PubMed:17412826). Shows broad substrate specificity, can transport both organic anions such as bile acid taurocholate (cholyltaurine) and conjugated steroids (17-beta- glucuronosyl estradiol, dehydroepiandrosterone sulfate (DHEAS), and estrone 3-sulfate), as well as eicosanoid leukotriene C4, prostaglandin E2 and L-thyroxine (T4) (PubMed:10779507, PubMed:11159893, PubMed:12568656, PubMed:15159445, PubMed:17412826, PubMed:19129463). Hydrogencarbonate/HCO3(-) acts as the probable counteranion that exchanges for organic anions (PubMed:19129463). Shows a pH-sensitive substrate specificity towards sulfated steroids, taurocholate 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). Involved in the clearance of bile acids and organic anions from the liver (PubMed:22232210). Can take up bilirubin glucuronides from plasma into the liver, contributing to the detoxification-enhancing liver-blood shuttling loop (PubMed:22232210). 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 pitavastatin, a clinically important class of hypolipidemic drugs (PubMed:15159445). May play an important role in plasma and tissue distribution of the structurally diverse chemotherapeutic drugs methotrexate and paclitaxel (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).
Cellular Location	Basolateral cell membrane; Multi-pass membrane protein. Basal cell membrane; Multi-pass membrane protein. Note=Localized to the basolateral membrane of hepatocytes (PubMed:10779507). Localized to the basal membrane of Sertoli cells (PubMed:35307651)
Tissue Location	Highly expressed in liver, in particular at the basolateral membrane of hepatocytes near the central vein (PubMed:10779507, PubMed:15159445). Expressed in the placenta (PubMed:12409283). In testis, primarily localized to the basal membrane of Sertoli cells and weakly expressed in Leydig cells and within the tubules (PubMed:35307651).

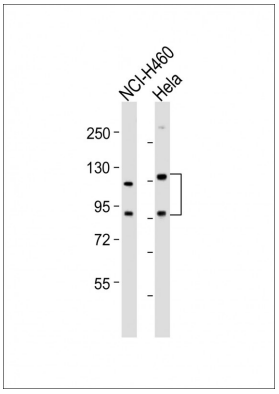
Background

SLCO1B3 belongs to the organic anion transporter (OATP) family. OATPs are involved in the membrane transport of bile acids, conjugated steroids, thyroid hormone, eicosanoids, peptides, and numerous drugs in many tissues (Mikkaichi et al., 2004 [PubMed 14993604]).

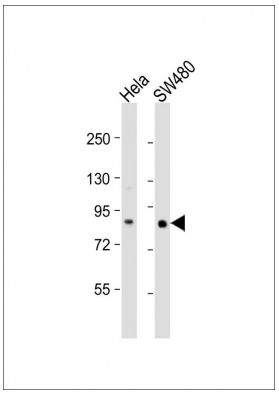
References

Hu, M., et al. Pharmacogenet. Genomics 20(10):634-637(2010)
Weiner, M., et al. Antimicrob. Agents Chemother. 54(10):4192-4200(2010)
Kang, T.W., et al. Hum. Mol. Genet. 19(18):3672-3678(2010)
Takahashi, N., et al. J. Hum. Genet. (2010) In press :
Justenhoven, C., et al. Breast Cancer Res. Treat. (2010) In press :

Images



All lanes : Anti-SLCO1B3 Antibody (C-term) at 1:2000 dilution Lane 1: NCI-H460 whole cell lysate Lane 2: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-SLCO1B3 Antibody (C-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: SW480 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFDM/TBST.