

Rabbit anti-Human SLCO1B3 Polyclonal Antibody | anti-SLCO1B3 antibody

SLCO1B3 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28785	Rabbit	Human	Western Blot, ELISA

PRODUCT SYNONYMS

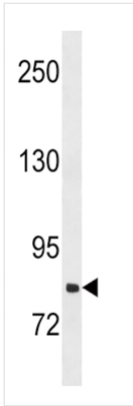
SLCO1B3; Polyclonal Antibody; SLCO1B3 Antibody (C-term); Solute carrier organic anion transporter family member 1B3; Liver-specific organic anion transporter 2; LST-2; Organic anion transporter 8; Organic anion-transporting polypeptide 8; OATP-8; Solute carrier family 21 member 8; LST2; OATP1B3; OATP8; SLC21A8; anti-SLCO1B3 antibody

PRODUCT SPECIFICATIONS

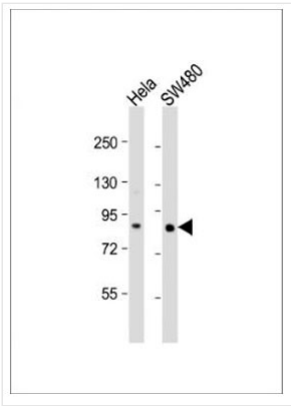
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SLCO1B3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 639-668 amino acids from the C-terminal region of human SLCO1B3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Length	748
Applicable Applications for anti-SLCO1B3 antibody	WB (Western Blot), ELISA
Application Notes	WB~~1:2000
Antigen Type	Synthetic Peptide
Antigen Region	639-668
Function	Mediates the Na(+)-independent uptake of organic anions such as 17-beta-glucuronosyl estradiol, taurocholate, triiodothyronine (T3), leukotriene C4, dehydroepiandrosterone sulfate (DHEAS), methotrexate and sulfobromophthalein (BSP). Involved in the clearance of bile acids and organic anions from the liver.
Cellular Location	Basolateral cell membrane; Multi-pass membrane protein
Tissue Location	Highly expressed in liver, in particular at the basolateral membrane of hepatocytes near the central vein. Not detected in other tissues. Highly expressed in some cancer cell lines derived from colon, pancreas, liver and gall bladder
Precautions	SLCO1B3 Antibody (C-term) is for research use only

Function	Mediates the Na(+)-independent uptake of organic anions (PubMed:15159445, PubMed:17412826, PubMed:10779507). Shows broad substrate specificity, can transport both organic anions such as bile acid taurocholate (cholytaurine) 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:15159445, PubMed:17412826, PubMed:10779507, PubMed:12568656, PubMed:11159893, 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:16627748, PubMed:16624871).
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).
Preparation and 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.

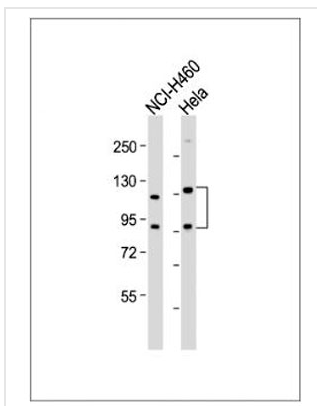
IMAGES



WB (Western Blot)
SLCO1B3 Antibody (C-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the SLCO1B3 antibody detected the SLCO1B3 protein (arrow).

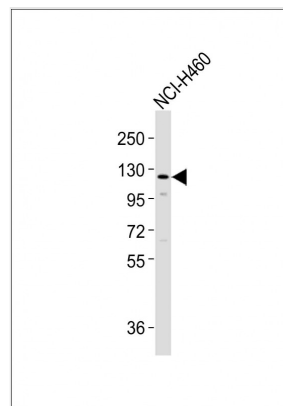


WB (Western Blot)
All lanes : Anti-SLCO1B3 Antibody (C-term) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: SW480 whole cell lysate. Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted bandsize : 77 kDa Blocking/Dilution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



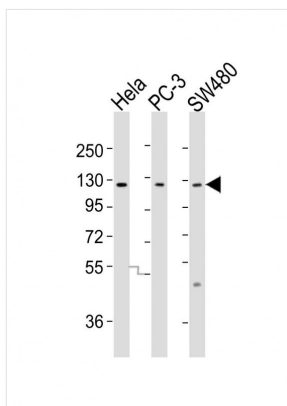
WB (Western Blot)

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 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



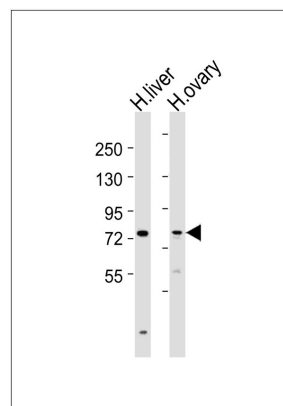
WB (Western Blot)

Anti-SLCO1B3 Antibody (C-term) at 1:1000 dilution + NCI-H460 whole cell lysates Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



WB (Western Blot)

All lanes : Anti-SLCO1B3 Antibody (C-term) at 1:2000 dilution Lane 1: HeLa whole cell lysates Lane 2: PC-3 whole cell lysates Lane 3: SW480 whole cell lysates Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



WB (Western Blot)

All lanes : Anti-SLCO1B3 Antibody (C-term) at 1:2000 dilution Lane 1: human liver lysates Lane 2: human ovary lysates Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-SLCO1B3 antibody	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 :

NCBI AND UNIPROT INFORMATION

NCBI GI #	9790233
NCBI GeneID	28234
NCBI Accession #	NP_062818.1
NCBI GenBank Nucleotide #	NM_019844.3
UniProt Accession #	Q9NPD5; Q5JAR4; E7EMT8

NCBI Official Full Name	solute carrier organic anion transporter family member 1B3
NCBI Official Synonym Full Names	solute carrier organic anion transporter family, member 1B3
NCBI Official Symbol	SLCO1B3
NCBI Official Synonym Symbols	LST3; HBLRR; LST-2; OATP8; OATP-8; OATP1B3; SLC21A8; LST-3TM13
NCBI Protein Information	solute carrier organic anion transporter family member 1B3
UniProt Protein Name	Solute carrier organic anion transporter family member 1B3
UniProt Gene Name	SLCO1B3
UniProt Synonym Gene Names	LST2; OATP1B3; OATP8; SLC21A8; LST-2; OATP-8
UniProt Entry Name	SO1B3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/slco1b3-antibody-western-blot-elisa/28785>