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SLC10A1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5710b

Specification

SLC10A1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q14973
Other Accession	NP_003040.1

SLC10A1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 6554

Other Names
Sodium/bile acid cotransporter, Cell growth-inhibiting gene 29 protein, Na(+)/bile acid cotransporter, Na(+)/taurocholate transport protein, Sodium/taurocholate cotransporting polypeptide, Solute carrier family 10 member 1, SLC10A1, NTCP

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SLC10A1 Antibody (C-term) Blocking peptide - Protein Information

Name SLC10A1

Synonyms NTCP

Function
As a major transporter of conjugated bile salts from plasma into the hepatocyte, it plays a key role in the enterohepatic circulation of bile salts necessary for the solubilization and absorption of dietary fat and fat-soluble vitamins (PubMed:8132774, PubMed:14660639, PubMed:24867799, PubMed:34060352). It is strictly dependent on the extracellular presence of sodium (PubMed:8132774, PubMed:14660639, PubMed:24867799, PubMed:34060352). It exhibits broad substrate specificity and transports various bile acids, such as taurocholate, cholate, as well as non-bile acid organic compounds, such as estrone sulfate (PubMed:<a

href="http://www.uniprot.org/citations/14660639" target="_blank">14660639, PubMed:34060352). Works collaboratively with the ileal transporter (NTCP2), the organic solute transporter (OST), and the bile salt export pump (BSEP), to ensure efficacious biological recycling of bile acids during enterohepatic circulation (PubMed:33222321).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in liver (PubMed:11031103, PubMed:12409283). Expressed in placental trophoblasts (PubMed:12409283).

SLC10A1 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SLC10A1 Antibody (C-term) Blocking peptide - Images

SLC10A1 Antibody (C-term) Blocking peptide - Background

Sodium/bile acid cotransporters are integral membraneglycoproteins that participate in the enterohepatic circulation ofbile acids. Two homologous transporters are involved in thereabsorption of bile acids, one absorbing from the intestinallumen, the bile duct, and the kidney with an apical localization(SLC10A2; MIM 601295), and the other being found in the basolateralmembranes of hepatocytes (SLC10A1).

SLC10A1 Antibody (C-term) Blocking peptide - References

Ho, R.H., et al. J. Biol. Chem. 279(8):7213-7222(2004)Trauner, M., et al. Physiol. Rev. 83(2):633-671(2003)Hallen, S., et al. Biochemistry 41(23):7253-7266(2002)Shiao, T., et al. Genomics 69(2):203-213(2000)Hagenbuch, B., et al. J. Clin. Invest. 93(3):1326-1331(1994)