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Anti-SLC10A1 Antibody

Catalog # ABO10985

Product Information

Application	WB, IHC-P
Primary Accession	Q14973
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Sodium/bile acid cotransporter(SLC10A1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	38119
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 □g/ml, Rat, Human, Mouse
Subcellular Localization	Membrane; Multi-pass membrane protein.
Source	Eukaryota
Protein Name	Sodium/bile acid cotransporter
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human SLC10A1(141-154aa YSRGIYDGDLKDKV), different from the related rat and mouse sequences by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

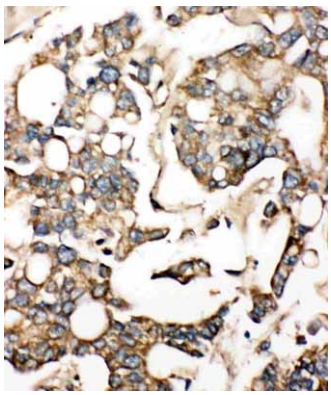
Protein Information

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:14660639, PubMed:24867799, PubMed:34060352, PubMed:8132774). It is strictly dependent on the extracellular presence of sodium (PubMed:14660639, PubMed:24867799, PubMed:34060352, PubMed:8132774). 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: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).

Background

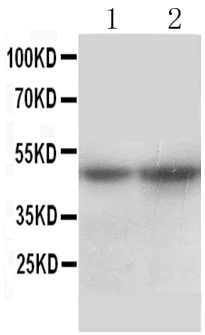
Na+-taurocholate cotransporting polypeptide (NTCP), also known as SLC10A1 (Solute carrier family 10, member 1), is the major bile acid uptake system in human hepatocytes. NTCP and the ileal transporter ASBT (apical sodium-dependent bile acid transporter) are two sodium-dependent transporters critical for the enterohepatic circulation of bile acids. The hASBT gene is known to be activated by the glucocorticoid receptor (GR). Ho RH et al. indicates functionally important polymorphisms in NTCP exist and that the like lihood of being carriers of such polymorphisms is dependent on ethnicity.

Images



Anti-SLC10A1 antibody, ABO10985, IHC(P)IHC(P): Human Liver Cancer Tissue

Anti-SLC10A1 antibody, ABO10985, Western blottingAll lanes: Anti SLC10A1 (ABO10985) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Mouse Liver Tissue



Lysate at 50ugPredicted bind size: 38-56KDObserved bind size: 49KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.