**BACKGROUND**

NTCP (Na+/taurocholate transport protein), also known as SLC10A1 (solute carrier family 10 [sodium/bile acid cotransporter family], member 1), is a 349 amino acid multi-pass membrane protein that belongs to the sodium/bile acid symporter family of cotransporters. Localized to the basolateral membranes of hepatocytes, NTCP plays a role in the hepatic sodium/bile acid uptake system, which functions as a substrate-specific, sodium-dependent transporter of both bile and non-bile organic compounds. The gene encoding NTCP maps to human chromosome 14, which houses over 700 genes and comprises nearly 3.5% of the human genome. Chromosome 14 encodes the Presinilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer’s disease (AD). The SERPINA1 gene is also located on chromosome 14 and, when defective, leads to the genetic disorder α1-antitrypsin deficiency, which is characterized by severe lung complications and liver dysfunction.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: S10a1 (mouse) mapping to 12 D1.

**SOURCE**

NTCP (M-130) is a rabbit polyclonal antibody raised against amino acids 133-260 mapping within an internal region of NTCP of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

NTCP (M-130) is recommended for detection of NTCP of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence [starting dilution 1:50, dilution range 1:50-1:500] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NTCP siRNA (h): sc-92260, NTCP siRNA (m): sc-150086, NTCP shRNA Plasmid (h): sc-92260-V, NTCP shRNA Plasmid (m): sc-150086-V, NTCP shRNA (h) Lentiviral Particles: sc-92260-V and NTCP shRNA (m) Lentiviral Particles: sc-150086-V.

Molecular Weight of NTCP: 38 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

**DATA**

![NTCP (M-130): sc-98485. Western blot analysis of NTCP expression in Hep G2 whole cell lysate.](image)

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.