

OATP8 (H-52): sc-98981

BACKGROUND

The organic anion transporter family of proteins mediate hepatic uptake of cardiac glycosides. OATP8 (organic anion transporter 8), also known as SLC01B3 (solute carrier organic anion transporter family member 1B3), SLC21A8 (solute carrier family 21 member 8) or LST-2 (liver-specific organic anion transporter 2), is a 702 amino acid member of the organic anion transporter protein family. As a multi-pass membrane protein, OATP8 mediates the Na⁺-independent transport of triiodothyronine (T3), leukotriene C4, taurocholate and other organic anions. OATP8 is also thought to transport steroid conjugates, such as 17- β -glucuronosyl estradiol and dehydroepiandrosterone sulfate (DHEAS). Oatp4 is highly expressed in liver and is N-glycosylated.

REFERENCES

1. König, J., et al. 2000. Localization and genomic organization of a transporting polypeptide. *J. Biol. Chem.* 275: 23161-23168.
2. Abe, T., et al. 2001. LST-2, a human liver-specific organ sensitivity in gastrointestinal cancers. *Gastroenterology* 120: 1689-1699.
3. Meier-Abt, F., et al. 2004. Identification of phalloidin uptake systems of rat and human liver. *Biochim. Biophys. Acta* 1664: 64-69.
4. Letschert, K., et al. 2004. Mutations in the SLC01B3 gene affecting the substrate specificity of the hepatocellular uptake transporter OATP1B3 (OATP8). *Pharmacogenetics* 14: 441-452.
5. Letschert, K., et al. 2005. Vectorial transport of the peptide CCK-8 by double-transfected MDCKII cells stably expressing the organic anion transporter OATP1B3 (OATP8) and the export pump ABCC2. *J. Pharmacol. Exp. Ther.* 313: 549-556.

CHROMOSOMAL LOCATION

Genetic locus: SLC01B3 (human) mapping to 12p12.2.

SOURCE

OATP8 (H-52) is a rabbit polyclonal antibody raised against amino acids 651-702 mapping at the C-terminus of OATP8 of human origin.

PRODUCT

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

APPLICATIONS

OATP8 (H-52) is recommended for detection of OATP8 and, to a lesser extent OATP-C of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

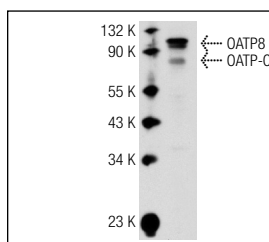
Molecular Weight of OATP8: 120 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

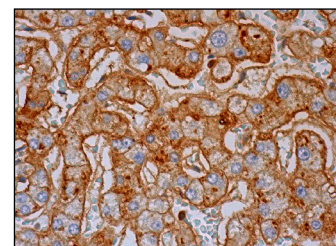
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



OATP8 (H-52): sc-98981. Western blot analysis of OATP8 expression in HeLa whole cell lysate.



OATP8 (H-52): sc-98981. Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tissue showing membrane and cytoplasmic staining of hepatocytes.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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.