



# OATP8 (T-14): sc-47276

## BACKGROUND

The organic anion transporter family of proteins includes OATP1, OATP2, OATP3, OATP4, OATP-E, OATP-F and OATP8. OATP1 and OATP2 mediate hepatic uptake of cardiac glycosides. OATP1 and OATP2 are both pravastatin transporters, suggesting that they are responsible for the hepatic uptake of the liver-specific hydroxymethylglutaryl-CoA reductase inhibitor in mouse, rat and human. The integral multi-pass membrane proteins OATP3, OATP4, OATP-E, OATP-F and OATP8 (also designated SLC21A7, SLC21A10, SLC04A1 and SLC01B3, respectively) mediate the NA<sup>+</sup>-independent transport of organic anions, such as taurocholate, leukotriene C<sub>4</sub>, thyroid hormones T<sub>3</sub> and T<sub>4</sub>, dehydroepiandrosterone sulfate (DHEAS) and methotrexate, during the absorption of bile acids in the liver. The expression of the OATP proteins is highest in liver tissue.

## REFERENCES

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2. Abe, T., Unno, M., Onogawa, T., Tokui, T., Kondo, T.N., Nakagomi, R., Adachi, H., Fujiwara, K., Okabe, M., Suzuki, T., Nunoki, K., Sato, E., Kakyō, M., Nishio, T., Sugita, J., Asano, N., Tanemoto, M., Seki, M., Date, F., Ono, K., et al. 2001. LST-2, a human liver-specific organ sensitivity in gastrointestinal cancers. *Gastroenterology* 120: 1689-1699.
3. Meier-Abt, F., Faulstich, H. and Hagenbuch, B. 2004. Identification of phalloidin uptake systems of rat and human liver. *Biochim. Biophys. Acta.* 1664: 64-69.
4. Letschert, K., Keppler, D. and König, J. 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.

## SOURCE

OATP8 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OATP8 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-47276 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

OATP8 (T-14) is recommended for detection of OATP8 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for OATP8 siRNA (h): sc-61253.

Molecular Weight of OATP8: 120 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.