



# Oatp1/3 (N-19): sc-47266

## 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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## CHROMOSOMAL LOCATION

Genetic locus: Sclo1a5 (mouse) mapping to 6 G2.

## SOURCE

Oatp1/3 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Oatp3 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.

Blocking peptide available for competition studies, sc-47266 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Oatp1/3 (N-19) is recommended for detection of Oatp1 and Oatp3 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); may cross-react with OATP-B1, OAT-K and OATP-5.

## 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.