



OATP4 (K-17): sc-47270

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^+ -independent transport of organic anions, such as taurocholate, leukotriene C₄, thyroid hormones T₃ and T₄, 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: Slco1b2 (mouse) mapping to 6 G1.

SOURCE

OATP4 (K-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of OATP4 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-47270 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OATP4 (K-17) is recommended for detection of OATP4 isoforms 1 and 2 of mouse 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).

Suitable for use as control antibody for OATP4 siRNA (m): sc-61252.

Molecular Weight of OATP4: 85 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.

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.