

OATP-B (P-15): sc-66559

BACKGROUND

The organic anion transporter family of proteins mediate hepatic uptake of cardiac glycosides. OATP-A and OATP-C 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. OATP-A is expressed in liver and kidney and helps mediate sodium-independent uptake of the anionic steroid conjugates dehydroepiandrosterone sulfate, estradiol-17-glucuronide and prostaglandin. OATP-C is exclusively expressed in liver and is localized to the basolateral hepatocyte membrane. OATP-B, also known as Slco2b1 or Slc21a9, mediates the Na⁺ independent transport of organic anions such as taurocholate, leukotriene C₄, thromboxane B₂ and iloprost during the absorption of bile acids in the liver.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLCO2B1 (human) mapping to 11q13.4.

SOURCE

OATP-B (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OATP-B of human origin.

STORAGE

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

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-66559 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OATP-B (P-15) is recommended for detection of OATP-B of 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).

OATP-B (P-15) is also recommended for detection of OATP-B in additional species, including canine and bovine.

Suitable for use as control antibody for OATP-B siRNA (h): sc-62711, OATP-B shRNA Plasmid (h): sc-62711-SH and OATP-B shRNA (h) Lentiviral Particles: sc-62711-V.

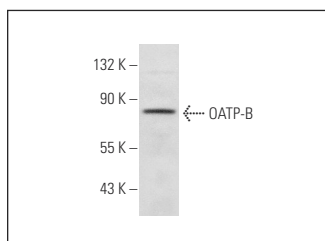
Molecular Weight of OATP-B: 85 kDa.

Positive Controls: U-937 cell lysate: sc-2239.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



OATP-B (P-15): sc-66559. Western blot analysis of OATP-B expression in U-937 whole cell lysate.

RESEARCH USE

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