

# OATP-F (T-20): sc-51351



The Power to Question

## BACKGROUND

The organic anion transporter family of proteins mediate hepatic uptake of cardiac glycosides. OATP-F (organic anion transporter F), also known as SLC01C1 (solute carrier organic anion transporter family member 1C1) or SLC21A14 (solute carrier family 21 member 14), is a 712 amino acid member of the organic anion transporter protein family. As a multi-pass membrane protein, OATP-F mediates the Na<sup>+</sup>-independent, high affinity transport of the thyroid hormones thyroxine (T4) and rT3 and other organic anions. OATP-F is also thought to transport estrone-3-sulfate and sulfobromophthalein (BSP), triiodothyronine (T3) and 17-beta-glucuronosyl estradiol at a much lower efficiency. OATP-F is expressed highly in Leydig cells in testis and in brain.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SLC01C1 (human) mapping to 12p12.2; Slco1c1 (mouse) mapping to 6 G2.

## SOURCE

OATP-F (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OATP-F of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-51351 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

OATP-F (T-20) is recommended for detection of OATP-F of mouse, rat and human 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).

OATP-F (T-20) is also recommended for detection of OATP-F in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for OATP-F siRNA (h): sc-106823, OATP-F siRNA (m): sc-106987, OATP-F shRNA Plasmid (h): sc-106823-SH, OATP-F shRNA Plasmid (m): sc-106987-SH, OATP-F shRNA (h) Lentiviral Particles: sc-106823-V and OATP-F shRNA (m) Lentiviral Particles: sc-106987-V.

Molecular Weight of OATP-F: 79 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **OATP-F (G-5): sc-398883**, our highly recommended monoclonal alternative to OATP-F (T-20).