

# OATP-I (G-14): sc-132393

## BACKGROUND

The organic anion transporter family of proteins mediate hepatic uptake of cardiac glycosides. OATP-I (organic anion transporter F), also known as SLC06A1 (solute carrier organic anion transporter family member 6A1), gonad-specific transporter (GST), cancer/testis antigen 48 (CT48) or SLC21A14 (solute carrier family 21 member 19), is a 719 amino acid member of the organic anion transporter protein family. As a multi-pass membrane protein, OATP-I is thought to mediate the Na<sup>+</sup>-independent transport of organic anions. OATP-I is highly expressed in testis, with lower expression found in brain, placenta and spleen. OATP-I is expressed as three isoforms produced by alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SLC06A1 (human) mapping to 5q21.1.

## SOURCE

OATP-I (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of OATP-I 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-132393 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

OATP-I (G-14) is recommended for detection of OATP-I isoforms 1, 2 and 3 of 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); non cross-reactive with other Oatp family members.

Suitable for use as control antibody for OATP-I siRNA (h): sc-91933, OATP-I shRNA Plasmid (h): sc-91933-SH and OATP-I shRNA (h) Lentiviral Particles: sc-91933-V.

Molecular Weight of OATP-I: 79 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## 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.