**BACKGROUND**

The organic anion transporter family of proteins mediate hepatic uptake of cardiac glycosides. Oatp4, also known as Slco1b2 (solute carrier organic anion transporter family member 1B2), Slc21a10 (solute carrier family 21 member 10) or LST-1 (liver-specific organic anion transporter 1), is a 689 amino acid member of the organic anion transporter protein family. As a multi-pass membrane protein, Oatp4 mediates the Na⁺ transport of bromosulfophthalein, taurocholate and other organic anions. Oatp4 is also thought to transport steroid conjugates, such as 17-β-glucuronosylestradiol, dehydroepiandrosterone sulfate, estrone-3-sulfate and prostaglandin E₂. Oatp4 is liver-specific and expressed as three isoforms produced by alternative splicing.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Slco1b3 (mouse) mapping to 6 G2.

**APPLICATIONS**

Oatp4 (D-12) is recommended for detection of Oatp4 isoforms 1, 2 and 3 of mouse and rat origin by Western Blotting (starting dilution 1:1000, 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).

Suitable for use as control antibody for Oatp4 siRNA (m): sc-61252, Oatp4 shRNA Plasmid (m): sc-61252-SH and Oatp4 shRNA (m) Lentiviral Particles: sc-61252-V.

Molecular Weight (predicted) of Oatp4: 77 kDa.
Molecular Weight (observed) of Oatp4: 98-107 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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).

**DATA**

![Oatp4 (D-12): sc-376904. Western blot analysis of Oatp4 expression in rat liver tissue extract.](image)

**SOURCE**

Oatp4 (D-12) is a mouse monoclonal antibody raised against amino acids 571-652 mapping at the C-terminus of Oatp4 of rat origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

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

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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