

OATP-E (Y-13): sc-51174

BACKGROUND

The organic anion transporter family of proteins mediate hepatic uptake of cardiac glycosides. OATP-E (organic anion transporter E), also known as SLC04A1 (solute carrier organic anion transporter family member 4A1), SLC21A12 (solute carrier family 21 member 12) or POAT, is a 722 amino acid member of the organic anion transporter protein family. As a multi-pass membrane protein, OATP-E mediates the Na⁺-independent transport of estrone-3-sulfate, taurocholate and the thyroid hormones T3 (triiodo-L-thyronine), T4 (thyroxine) and rT3. OATP-E is ubiquitously expressed except in leukocytes and spleen. OATP-E is expressed as four isoforms produced by alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Slco4a1 (mouse) mapping to 2 H4.

SOURCE

OATP-E (Y-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OATP-E of mouse origin.

RESEARCH USE

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

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-51174 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OATP-E (Y-13) is recommended for detection of all isoforms of OATP-E of mouse and rat 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-E (Y-13) is also recommended for detection of all isoforms of OATP-E in additional species, including equine, canine and bovine.

Suitable for use as control antibody for OATP-E siRNA (m): sc-61248, OATP-E shRNA Plasmid (m): sc-61248-SH and OATP-E shRNA (m) Lentiviral Particles: sc-61248-V.

Molecular Weight of OATP-E: 68 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.