

Oatp3 (H-82): sc-292101

BACKGROUND

The organic anion transporting polypeptide (OATP) family of proteins play a role in drug absorption, distribution and excretion. OATP proteins mediate the uptake of a broad range of substrates, including bile salts, hormones, drugs and antibiotics, and they are expressed in various tissues, such as gut, brain, kidney and liver. Oatp3, also known as Slco1a5 and Slc21a7, is a 670 amino acid member of the OATP protein family. As a multi-pass membrane protein, Oatp3 mediates the transport of organic anions, such as thyroid hormones and taurocholate during the absorption of bile acids in the liver. The gene that encodes Oatp3 maps to mouse chromosome 6 G2.

REFERENCES

1. Cattori, V., et al. 2001. Localization of organic anion transporting polypeptide 4 (OATP4) and comparison of its substrate specificity with OATP1, OATP2 and OATP3. *Pflugers Arch.* 443: 188-195.
2. Walters, H.C., et al. 2001. Expression, transport properties, and chromosomal location of organic anion transporter subtype 3. *Am. J. Physiol. Gastrointest. Liver Physiol.* 279: G1188-G1200.
3. Yarim, M., et al. 2004. Application of QSAR analysis to organic anion transporting polypeptide 1a5 (OATP1a5) substrates. *Bioorg. Med. Chem.* 13: 463-471.

CHROMOSOMAL LOCATION

Genetic locus: SLC01A2 (human) mapping to 12p12.1, Slco1a5 (mouse) mapping to 6 G2.

SOURCE

Oatp3 (H-82) is a rabbit polyclonal antibody raised against amino acids 91-172 mapping within an internal region of Oatp3 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.

APPLICATIONS

Oatp3 (H-82) is recommended for detection of Oatp3 of human and, to a lesser extent, mouse and rat 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).

Oatp3 (H-82) is also recommended for detection of Oatp3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Oatp3 siRNA (m): sc-61250, Oatp3 shRNA Plasmid (m): sc-61250-SH and Oatp3 shRNA (m) Lentiviral Particles: sc-61250-V.

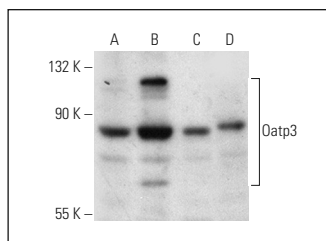
Molecular Weight of Oatp3: 76 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, HeLa whole cell lysate: sc-2200 or IMR-32 cell lysate: sc-2409.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Oatp3 (H-82): sc-292101. Western blot analysis of Oatp3 expression in Hep G2 (A), HeLa (B) and IMR-32 (C) whole cell lysates and human liver tissue extract (D).

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 or our catalog for detailed protocols and support products.