

BM5542**Monoclonal Antibody to SLC01B1 / OATP2 - Supernatant****Alternate names:**

LST-1, LST1, Liver-specific organic anion transporter 1, OATP-2, OATP-C, OATPC, SLC21A6, Sodium-independent organic anion-transporting polypeptide 2, Solute carrier family 21 member 6, Solute carrier organic anion transporter family member 1B1

Quantity:

5 ml

Background:

The OATPs (organic anion transporter polypeptides) are a family of transport proteins that have been found to mediate the uptake of organic ions into hepatocyte cells. These proteins fall into the solute carrier family 21A (SLC21A), and are expressed in liver, kidney, and brain. These polypeptides are involved in the excretion of potentially toxic compounds and therefore play a role in the overall detoxification system of the body. Unlike other members of the OATP family, OATP2 and 8 have been detected exclusively in the liver, and there is an 80% amino acid sequence homology between these polypeptides. Other names for OATP2 include SLC21A6, OATPC, and LST1.

Uniprot ID:

[Q9Y6L6](#)

NCBI:

[NP_006437.3](#)

GeneID:

[10599](#)

Host / Isotype:

Mouse / IgM

Clone:

mESL

Immunogen:

Synthetic C-terminus (21 aa) of Human organic anion transporter SLC21A6 coupled to KLH

Format:

State: Liquid Culture Supernatant containing 0.09% Sodium Azide

Applications:

Immunoprecipitation.

Immunofluorescence Microscopy (Ready-to-use).

Incubation Time: 1 h at RT).

Western blotting: for optimal detection of the glycosylated antigen sample boiling before SDS-PAGE is not recommended; alternatively, samples should be kept at 37°C for 30 min (cf. Cui et al.).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

- Specificity:** The antibody reacts with OATP2/OATP1B1, Human organic anion transporter SLC21A6 (90 kD).
It recognizes SCL21A6 transfected HEK293 cells, negative with HepG2 and PLC (cultured cell lines tested so far).
Using **Immunofluorescence Microscopy** mESL stains the sinusoidal (basolateral) membranes in frozen sections of human liver, hepatocellular carcinoma and the human cell line HEK293 transfected with SLC21A6.
In **Western blot analyses** the monoclonal antibody mESL reacts selectively with the 90 kD protein (after SDS-PAGE) present in the basolateral membrane fractions of human liver. According to a recent new nomenclature this hepatocytespecific protein is identical to OATP1B1 (see Ref. 2) also known as OATP-C.
Species: Human.
Other species not tested.
- Storage:** Store the antibody undiluted at 2-8°C.
Shelf life: one year from despatch.
- General Readings:**
1. Cui Y, König J, Nies AT, Pfannschmidt M, Hergt M, Franke WW, et al. Detection of the human organic anion transporters SLC21A6 (OATP2) and SLC21A8 (OATP8) in liver and hepatocellular carcinoma. *Lab Invest.* 2003 Apr;83(4):527-38. PubMed PMID: 12695556.
 2. Hagenbuch B, Meier PJ. The superfamily of organic anion transporting polypeptides. *Biochim Biophys Acta.* 2003 Jan 10;1609(1):1-18. PubMed PMID: 12507753.