DATENBLATT

Monoclonal Antibody to OATP2/OATP8 - Supernatant

Catalog #: BM5541

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

Uniprot ID:
Q9Y6L6

NCBI:
NP_006437

GeneID:
10599

Host / Isotype:
Mouse / IgG1

Clone:
mMDQ

Immunogen:
Synthetic N-terminus (24 aa) of Human organic anion transporter OATP2 coupled to KLH

Format:
State: Liquid Supernatant containing 0.09% Sodium Azide as preservative.

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Applications:
Immunoprecipitation.
Immunofluorescence Microscopy.
Western blotting: For optimal detection of the glycosylated antigen sample boiling before SDS-PAGE is not recommended. Alternatively, samples can be kept at 37°C for 30 min. (See Ref.1)
Immunohistochemistry on Paraffin Sections (only after microwave treatment: use undiluted. For details See Ref. 1).
Incubation Time: 1 h at RT, for Paraffin Sections overnight at 2-8°C.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
In Western blot analyses of basolateral membrane fractions of human liver the monoclonal antibody mMDQ reacts with 90 kD and 120 kD proteins (after SDS-PAGE) representing OATP2 (also described as OATP-C) and OATP8, respectively. According to a recent new nomenclature these hepatocyte-specific proteins are identical to OATP1B1 and OATP1B3, respectively (see Ref.2).
Using immunofluorescence microscopy mMDQ stains the sinusoidal (basolateral) membranes in frozen sections of human liver, hepatocellular carcinoma (see Ref.1).
Reacts with OATP2 and OATP8, human organic anion transporters (90 kD, 120 kD, after SDS-PAGE).
Reacts with Transfected HEK293 cells; negative with HepG2 and PLC.

Species Reactivity:
Tested: Human.

Storage:
Store the antibody undiluted at 2-8°C.
Shelf life: one year from despatch.

General References:
1. Cui Y, Koenig J, Nies AT, Pfannschmidt M, Hergt M, Franke WW, Alt W, Moll R, Keppler D: Detection of the human organic anion transporters SLC21A6 (OATP2) and SLC21A8 (OATP8) in liver and hepatocellular carcinoma. Lab Invest 83 (4), 527-538. (2003)
2. Hagenbuch E, Meier PJ: The superfamily of organic anion transporting polypeptides. Biochim Biophys Acta 1609, 1-18 (2003).

Protocols: Western Blotting: (Ref.1)
1. For optimal detection of the glycosylated antigen sample boiling before SDS-PAGE is not recommended; alternatively, samples can be kept at 37°C for 30 min
2.50 µg of protein lysate should be loaded on each lane.
3. The usage of a PVDF-Membrane is recommended.
4. The usage of 10% milk powder in TTBS (Tris-buffered saline, pH 7.6, with 0.05% Tween 20) as blocking reagent. The antibody can be diluted 3-5 x