



Monoclonal Anti-human FATP4 Antibody

ORDERING INFORMATION

Catalog Number: MAB3650

Clone: 342142

Lot Number: XWT01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human FATP4

Immunogen: hFATP4-transfected NS0 cells

Ig class: mouse IgG_{2b}

Recommended Application:
Flow cytometry

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with NS0 cells transfected with human Fatty Acid Transport Protein 4 (hFATP4; Accession # NP_005085). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. FATP4 is a multipass transmembrane protein that participates in the uptake and metabolism of long chain fatty acids. FATP4 is predominantly expressed in the central nervous system, intestine, heart, liver, and pancreas. It has acyl-CoA synthase activity and contains an AMP-binding motif. Polymorphisms of FATP4 are associated with insulin resistance and related metabolic disorders. Human FATP4 shares 92% amino acid sequence identity with mouse FATP4.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody stains hFATP4-transfected cells but not irrelevant transfectants.

Applications

Flow Cytometry- This antibody has been validated in FATP-4 transfectants by flow cytometry. Dilute this antibody to 25 µg/mL and add 10 µL of the diluted solution to 1 - 2.5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled monoclonal antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent such as goat anti-mouse IgG conjugated to a fluorochrome.

Optimal dilutions should be determined by each laboratory for each application.