

L-FABP (T-19): sc-16065

BACKGROUND

Fatty acid-binding proteins, designated FABPs, are a family of homologous cytoplasmic proteins that are expressed in a highly tissue-specific manner and play an integral role in the balance between lipid and carbohydrate metabolism. FABPs mediate fatty acid (FA) and/or hydrophobic ligand uptake, transport and targeting within their respective tissues. The mechanisms underlying these actions can give rise to both passive diffusional uptake and protein-mediated transmembrane transport of FAs. FABPs are expressed in adipocytes (A-FABP), brain (B-FABP), epidermis (E-FABP, also designated psoriasis-associated FABP or PA-FABP), muscle and heart (H-FABP, also designated mammary-derived growth inhibitor or MDGI), intestine (I-FABP), liver (L-FABP), myelin (M-FABP) and testis (T-FABP). Liver-specific FABP (L-FABP) expression is modulated by developmental, hormonal, dietary and pharmacological factors and is required for cholesterol synthesis and metabolism.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FABP1 (human) mapping to 2p11.2; Fabp1 (mouse) mapping to 6 C1.

SOURCE

L-FABP (T-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of L-FABP 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.

Blocking peptide available for competition studies, sc-16065 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

L-FABP (T-19) is recommended for detection of L-FABP of human and, to a lesser extent, 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).

L-FABP (T-19) is also recommended for detection of L-FABP in additional species, including canine and bovine.

Suitable for use as control antibody for L-FABP siRNA (h): sc-41243, L-FABP siRNA (m): sc-41244, L-FABP shRNA Plasmid (h): sc-41243-SH, L-FABP shRNA Plasmid (m): sc-41244-SH, L-FABP shRNA (h) Lentiviral Particles: sc-41243-V and L-FABP shRNA (m) Lentiviral Particles: sc-41244-V.

Molecular Weight of L-FABP: 14 kDa.

Positive Controls: Hep G₂ cell lysate: sc-2227.

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.

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.



Try **L-FABP (F-9): sc-271591** or **L-FABP (C-4): sc-374537**, our highly recommended monoclonal alternatives to L-FABP (T-19).