ILBP (E-9): sc-515609

**BACKGROUND**

The fatty acid binding protein (FABP) family of cytoplasmic hydrophobic ligand binding proteins influence lipid metabolism by binding and transporting long-chain fatty acids. Ileal lipid binding protein (ILBP) is a cytosolic ileocyte FABP that binds to both bile acids and fatty acids thereby mediating active uptake of bile acid in the ileum. Transport of bile acids from the liver is essential for the solubilization and transport of dietary lipids. ILBP contains ten antiparallel β strands arranged in two nearly orthogonal β sheets (β clam shell), covered on one side by two short, nearly parallel α helices. Binding of fatty acids or bile acids to ILBP alters the side-chain proton resonances of amino acids within the protein cavity and increases the affinity of ILBP for bile acids; bile acid binding to ILBP is a feedback regulation mechanism. The human ILBP gene maps to position 5q33.3, with transcript being abundant in the small intestine.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FABP6 (human) mapping to 5q33.3; Fabp6 (mouse) mapping to 11 B1.1.

**SOURCE**

ILBP (E-9) is a mouse monoclonal antibody raised against amino acids 1-128 representing full length ILBP of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ILBP (E-9) is available conjugated to agarose (sc-515609 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-516102 or m-IgGκ HRP-Cruz Marker), to either phycoerythrin (sc-515609 PE), fluorescein (sc-515609 FITC), Alexa Fluor® 488 (sc-515609 AF488), Alexa Fluor® 546 (sc-515609 AF546), Alexa Fluor® 594 (sc-515609 AF594) or Alexa Fluor® 647 (sc-515609 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FC; and to either Alexa Fluor® 680 (sc-515609 AF680) or Alexa Fluor® 790 (sc-515609 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

**APPLICATIONS**

ILBP (E-9) is recommended for detection of ILBP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for ILBP siRNA (h): sc-41241, ILBP siRNA (m): sc-41242, ILBP shRNA Plasmid (h): sc-41241-SH, ILBP shRNA Plasmid (m): sc-41242-SH, ILBP shRNA (h) Lentiviral Particles: sc-41241-V and ILBP shRNA (m) Lentiviral Particles: sc-41242-V.

Molecular Weight of ILBP: 14 kDa.

Positive Controls: NIH/3T3 whole cell lysate; sc-2210 or Daudi cell lysate: sc-2415.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-515609 PE, m-IgGκ BP-PE: sc-516141 (dilution range 1:50-1:200) with UltraCruz® Mounting Medium: sc-29491 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.