Datasheet for ABIN5693223

anti-FABP1 antibody (AA 1-127)

1 Image

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Overview

Quantity:	100 µg
Target:	FABP1
Binding Specificity:	AA 1-127
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FABP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-liver FABP/Fabp1 Antibody Picoband®
Immunogen:	E. coli-derived rat liver FABP recombinant protein (Position: M1-I127).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-liver FABP/Fabp1 Antibody Picoband® (ABIN5693223). Tested in ELISA, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Target Details

Target:	FABP1
Alternative Name:	Fabp1 (FABP1 Products)
Background:	Synonyms: Fatty acid-binding protein, liver, Fatty acid-binding protein 1, Liver-type fatty acid-binding protein, L-FABP, Squalene- and sterol-carrier protein, SCP, Z-protein, p14, Fabp1 Tissue Specificity: Expressed in lung cancers, including adenocarcinoma, squamous cell carcinoma and small-cell carcinoma. Widely expressed. Expressed in fetal kidney, liver, lung and brain. In adult highest expression in heart and placenta. Background: Fatty acid binding protein 1, liver, also known as FABP1 or FABPL, is a human gene locating at 2p11. FABP1 encodes the fatty acid binding protein found in liver. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind free fatty acids, their CoA derivatives, bilirubin, organic anions, and other small molecules. FABP1 and FABP6 (the ileal fatty acid binding protein) are also able to bind bile acids. It is thought that FABPs roles include fatty acid uptake, transport, and metaboism. The liver form of FABP may be identical to the major liver protein-1 (Lvp-1), which is encoded by a gene situated within 1 cM of Ly-2.
Molecular Weight:	14 kDa
Gene ID:	24360
UniProt:	P02692
Pathways:	Chromatin Binding, Regulation of Lipid Metabolism by PPARalpha

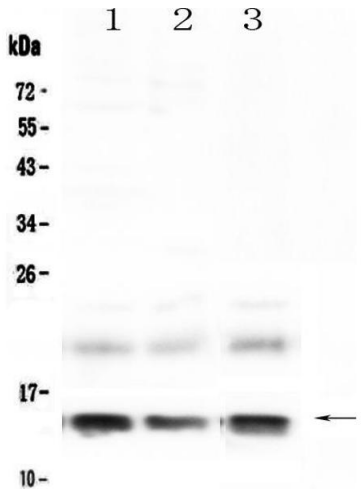
Application Details

Application Notes:	Western blot,0.1-0.5 µg/mL ELISA,0.1-0.5 µg/mL 1. Sparkes, R. S., Mohandas, T., Heinzmann, C., Gordon, J. I., Klisak, I., Zollman, S., Sweetser, D. A., Ragunathan, L., Winokur, S., Lusis, A. J. : Human fatty acid binding protein assignments: intestinal to 4q28-4q31 and liver to 2p11. (Abstract) Cytogenet. Cell Genet. 46: 697 only, 1987. 2. Sweetser, D. A., Birkenmeier, E. H., Klisak, I. J., Zollman, S., Sparkes, R. S., Mohandas, T., Lusis, A. J., Gordon, J. I. : The human and rodent intestinal fatty acid binding protein genes: a comparative analysis of their structure, expression, and linkage relationships. J. Biol. Chem. 262: 16060-16071, 1987.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na_2HPO_4, 0.05 mg NaN_3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of liver FABP using anti-liver FABP antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat RH35 whole cell lysates, Lane 3: mouse liver tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-liver FABP antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for liver FABP at

approximately 14KD. The expected band size for liver FABP is at 14KD.