SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-LFABP/FABP-1 antibody

Catalog Number: SL23768R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	LFABP/FABP-1
Immunogen:	KLH conjugated synthetic peptide derived from human LFABP/FABP-1: 41-127/127
Purification:	affinity purified by Protein A
Concentration:	1mg/1ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog)
Predicted MW.:	14kDa
Subcellular Location:	cytoplasmic
Background:	Fatty acid binding proteins (FABP) are small (approximately 13-14 kDa) intracellular proteins with a high degree of tissue specificity. FABPs are a class of cytoplasmic proteins that bind long chain fatty acids. They are abundantly present in various cell types and seem to play an important role in the intracellulair utilization of fatty acids. There are at least six distinct types of FABP, each showing a specific pattern of tissue expression. FABP leaks, due to its small size, rapidly out of ischemically damaged dying cells leading to a rise in serum levels. Liver FABP is a sensitive marker for cell damage of liver cells in vitro and in vivo. Ischemically damaged tissues are characterized histologically by absence (or low presence) of FABP facilitating recognition of such areas. Next to this L FABP is a marker for rapid hepatocyte lysis in vitro (as for example in

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	toxicology assays) and for detection of liver damage during and after transplantation. **Function:** Binds free fatty acids and their coenzyme A derivatives, bilirubin, and some other small molecules in the cytoplasm. May be involved in intracellular lipid transport. **Subcellular Location:** Cytoplasm. **Similarity:** Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family. **Database links:** **Entrez Gene:** 2168 Human **Entrez Gene:** 14080 Mouse **Entrez Gene:** 24360 Rat Omim: 134650 Human **SwissProt:** P07148 Human **SwissProt:** P12710 Mouse **SwissProt:** P02692 Rat **Unigene:** 380135 Human **Unigene:** 22126 Mouse **Unigene:** 36412 Rat The liver-type fatty acid Binding protein family is a member of the lipid Binding protein superfamily. It is a family of multi-source small molecule polypeptide proteins present in the cells of vertebrates and invertebrates, and plays an important role in the cellular uptake, transport, and metabolic regulation of long-chain fatty acids. LFABP is widely present in various cells such as the small intestine, liver, heart, brain, and skeletal muscle of mammals. Its main role is to regulate fatty acid uptake and intracellular transport, and it can transport fatty acids from The cell membrane to the sites of fatty acid oxidation and triglyceride and phospholipid synthesis.

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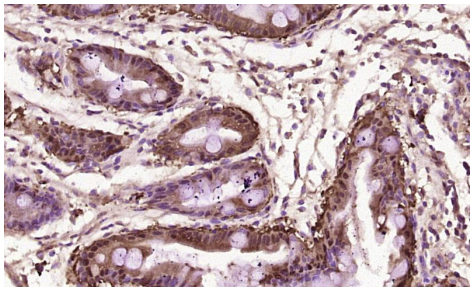
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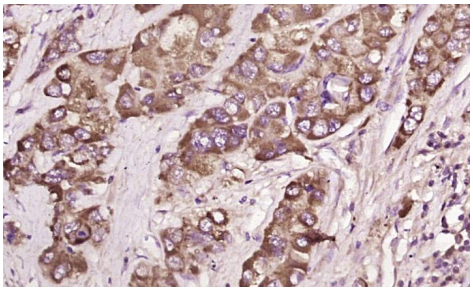
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[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LFABP) Polyclonal Antibody, Unconjugated (SL23768R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LFABP) Polyclonal Antibody, Unconjugated (SL23768R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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