SunLong Biotech Co.,LTD
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Rabbit Anti-intestinal FABP antibody

SL0788R

Product Name	intestinal FABP
Chinese Name	肠型脂肪酸 Binding protein 抗体
Alias	FABP 2; FABP2; FABPI; Fatty acid binding protein 2 intestinal; Fatty acid binding protein intestinal; Fatty acid-binding protein; I-FABP; IFABP; Intestinal fatty acid binding protein 2; MGC133132; FABPI_HUMAN.
Research Area	Cardiovascular Cell biology immunology Growth factors and hormones Diabetes
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse (predicted:Rat,Chicken,Dog,Pig,Rabbit)
Applications	WB=1:500-2000,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.
Theoretical molecular weight	15kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from IFABP: 45-132/132
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Intestinal FABP is an intestinal marker. It is expressed in the small intestine. Expression in the mucosal cells of the ileum extends from the midvillar region to the villus tips. It is thought to play a role in the intracellular transport of long chain fatty acids and their acyl CoA esters and may be involved in triglyceride rich lipoprotein synthesis.

Function:
FABP are thought to play a role in the intracellular transport of long-chain fatty acids and their acyl-CoA esters. FABP2 is probably involved in triglyceride-rich lipoprotein synthesis. Binds saturated long-chain fatty acids with a high affinity, but binds with a lower affinity to unsaturated long-chain fatty acids. FABP2 may also help maintain energy homeostasis by functioning as a lipid sensor.

Subcellular Location:
Cytoplasm.

Tissue Specificity:
Expressed in the small intestine and at much lower levels in the large intestine. Highest expression levels in the jejunum.

Product Detail

Similarity:
Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.

SWISS:
P12104

Gene ID:
2169

Database links:

Entrez Gene: 2169 Human

Entrez Gene: 14079 Mouse

Entrez Gene: 25598 Rat

Omim: 134640 Human

SwissProt: P12104 Human

SwissProt: P55050 Mouse

SwissProt: P02693 Rat

Unigene: 282265 Human

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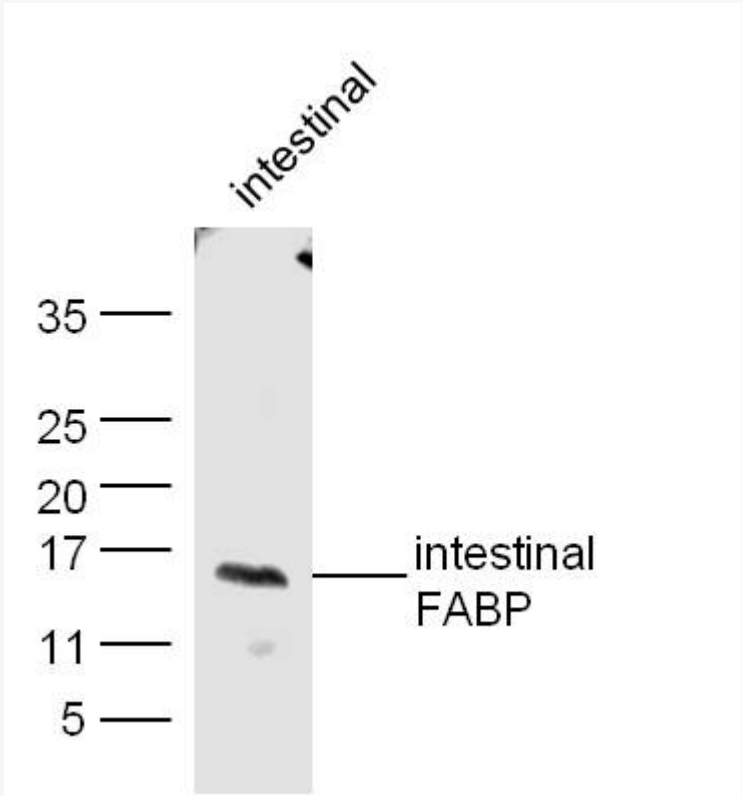
Unigene: 28398 Mouse

Unigene: 91358 Rat

Fabp2 脂肪酸 Binding protein-2,参与脂肪酸代谢、运输、消化，该蛋白的异常增高使人的 The new supersedes the old 功能异常，影响人体消耗摄入的糖分，从而导致引发 Diabetes 的发生。FABP2 多态性可能与 2 型 Diabetes 合并冠心病的胰岛素抵抗相关联。

Product Picture



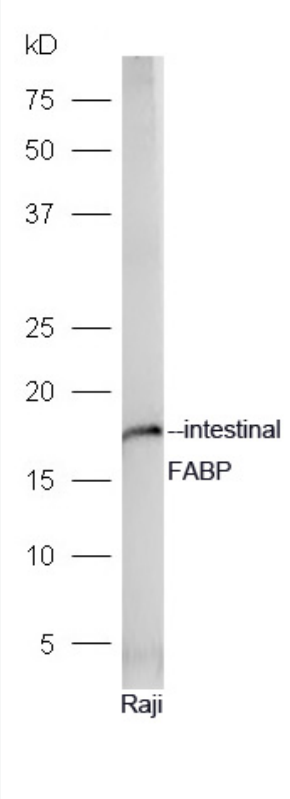
Sample: Intestinal(Mouse) Lysate at 30ug;

Primary: Anti-intestinal FABP (SL0788R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1: 5000 dilution;

Predicted band size: 15 kD

Observed band size: 17 kD



Sample: Raji Cell Lysate at 30ug;

Primary: Anti-intestinal FABP (SL0788R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1: 5000 dilution;

Predicted band size: 15 kD

Observed band size: 17 kD

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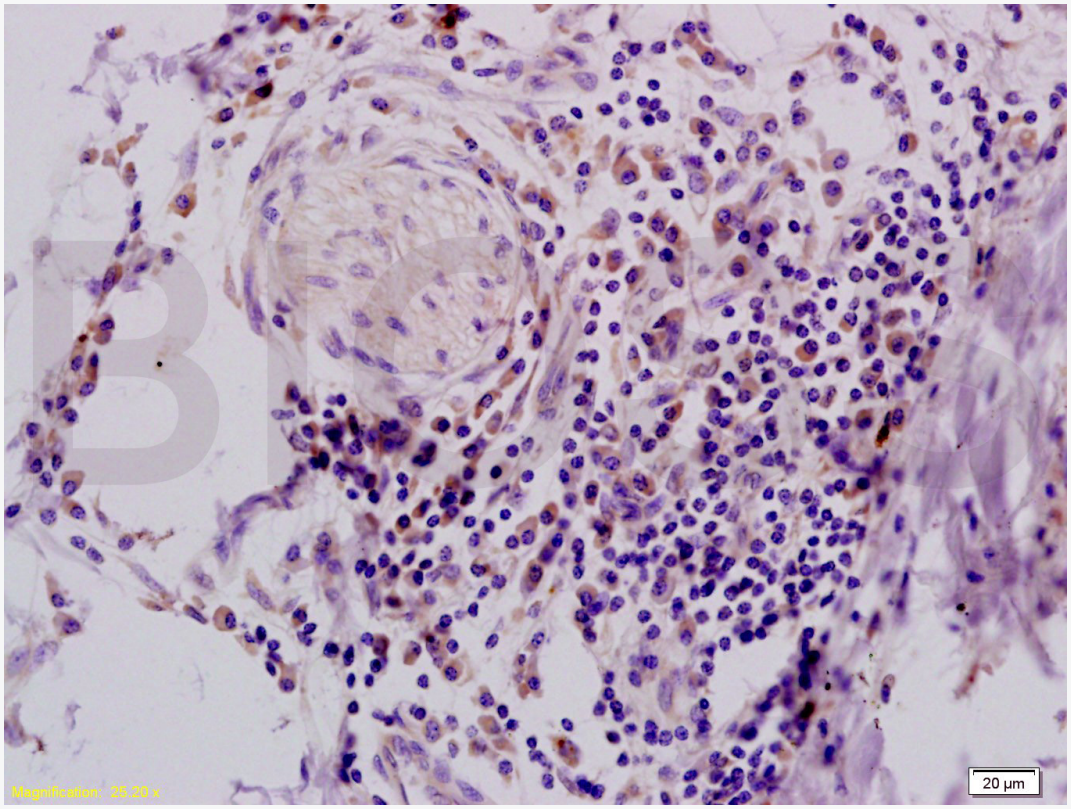

Tissue/cell: human colon carcinoma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-IFABP Polyclonal Antibody, Unconjugated(SL0788R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining