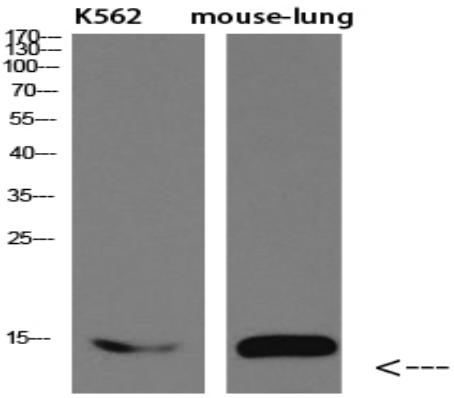
Best Tools for immunology Research

I-FABP Polyclonal Antibody

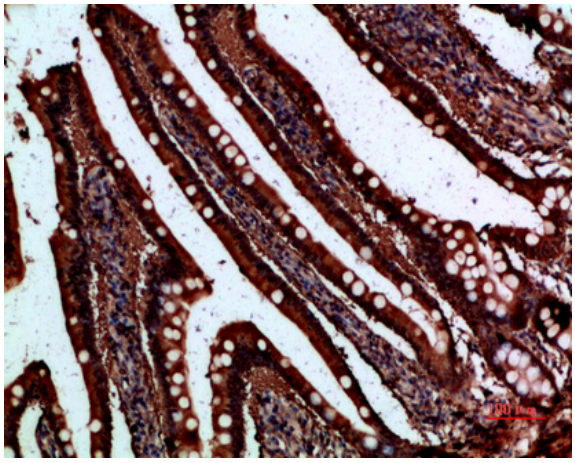
Catalog No :	YT5874
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	I-FABP
Fields :	>>PPAR signaling pathway;>>Fat digestion and absorption
Gene Name :	FABP2 FABPI
Protein Name :	Fatty acid-binding protein, intestinal (Fatty acid-binding protein 2) (Intestinal-type fatty acid-binding protein) (I-FABP)
Human Gene Id :	2169
Human Swiss Prot No :	P12104
Mouse Gene Id :	14079
Mouse Swiss Prot No :	P55050
Rat Swiss Prot No :	P02693
Immunogen :	Synthetic peptide from human protein at AA range: 90-132
Specificity :	The antibody detects endogenous I-FABP
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000,IHC 1:500-200, ELISA 1:10000-20000. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	15kD
Cell Pathway :	PPAR;
Background :	The intracellular fatty acid-binding proteins (FABPs) belong to a multigene family with nearly twenty identified members. FABPs are divided into at least three distinct types, namely the hepatic-, intestinal- and cardiac-type. They form 14-15 kDa proteins and are thought to participate in the uptake, intracellular metabolism and/or transport of long-chain fatty acids. They may also be responsible in the modulation of cell growth and proliferation. Intestinal fatty acid-binding protein 2 gene contains four exons and is an abundant cytosolic protein in small intestine epithelial cells. This gene has a polymorphism at codon 54 that identified an alanine-encoding allele and a threonine-encoding allele. Thr-54 protein is associated with increased fat oxidation and insulin resistance. [provided by RefSeq, Jul 2008],
Function :	domain:Forms a beta-barrel structure that accommodates the hydrophobic ligand in its interior.,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.,induction:By EGF.,similarity:Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.,tissue specificity:Expressed in the small intestine and at much lower levels in the large intestine. Highest expression levels in the jejunum.,
Subcellular Location :	Cytoplasm.
Expression :	Expressed in the small intestine and at much lower levels in the large intestine. Highest expression levels in the jejunum.
Sort :	8317
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Western blot analysis of mouse-brain mouse-spinal-cord lysate, antibody was diluted at 2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-small-intestine, antibody was diluted at 1:200