

**Goat Anti-FABP2 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1392a****Specification**

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**Goat Anti-FABP2 Antibody - Product Information**

Application	WB, IHC, FC
Primary Accession	<a href="#">P12104</a>
Other Accession	<a href="#">NP_000125</a> , <a href="#">2169</a> , <a href="#">14079 (mouse)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	15237

**Goat Anti-FABP2 Antibody - Additional Information****Gene ID** 2169**Other Names**

Fatty acid-binding protein, intestinal, Fatty acid-binding protein 2, Intestinal-type fatty acid-binding protein, I-FABP, FABP2, FABPI

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-FABP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-FABP2 Antibody - Protein Information****Name** FABP2**Synonyms** FABPI**Function**

FABPs 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.

**Cellular Location**

Cytoplasm.

**Tissue Location**

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

**Goat Anti-FABP2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

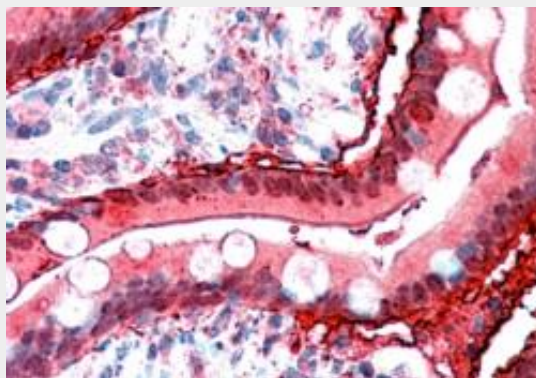
**Goat Anti-FABP2 Antibody - Images**

AF1392a (0.001 µg/ml) staining of Human Duodenum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

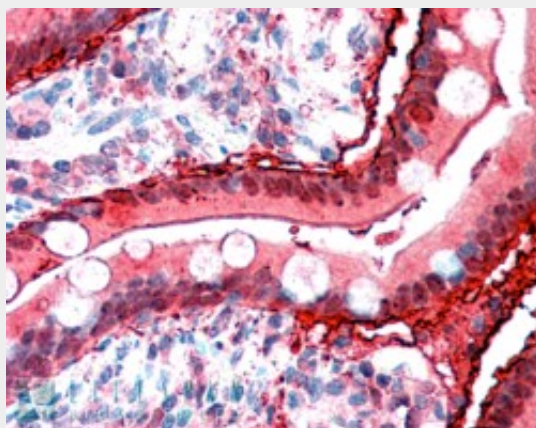
188 —  
98 —  
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3 —



HEK293 overexpressing FABP2 (RC210206) and probed with AF1392a (mock transfection in first lane), tested by Origene.



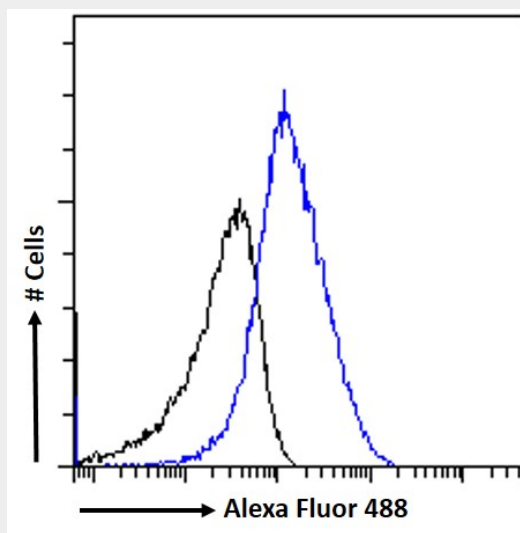
AF1392a (2.5 µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07742 (2.5µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07742 (0.001 $\mu$ g/ml) staining of Human Duodenum (A) and (0.003 $\mu$ g/ml) Ileum (B) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB07742 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (1 $\mu$ g/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

### Goat Anti-FABP2 Antibody - 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.

### Goat Anti-FABP2 Antibody - References

Metabolic syndrome and ALA54THR polymorphism of fatty acid-binding protein 2 in obese patients. de Luis DA, et al. Metabolism, 2010 Aug 17. PMID 20723947.

A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Meta-analysis on the effect of the Ala54Thr polymorphism of the fatty acid-binding protein 2 gene on body mass index. Zhao T, et al. Nutr Metab Cardiovasc Dis, 2010 Jun 19. PMID 20621703.

Association of the fatty acid-binding protein 2 gene Ala54Thr polymorphism with insulin resistance and blood glucose: a meta-analysis in 13451 subjects. Zhao T, et al. Diabetes Metab Res Rev, 2010 Jul. PMID 20578207.