

## Product datasheet for **TA326786S**

### **FABP4 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:50- 1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human FABP4
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	fatty acid binding protein 4
Database Link:	<a href="#">NP_001433</a> <a href="#">Entrez Gene 11770 Mouse</a> <a href="#">Entrez Gene 79451 Rat</a> <a href="#">Entrez Gene 2167 Human</a> <a href="#">P15090</a>



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**Background:**

Fatty acid binding proteins (FABPs) bind to fatty acids and other lipids to function as cytoplasmic lipid chaperones. They participate in the transport of fatty acids and other lipids to various cellular pathways. The predominant fatty acid binding protein found in adipocytes is FABP4, also called adipocyte fatty acid binding protein or aP2. FABP4 is also expressed in macrophages. FABP4 knockout mice fed a high-fat and high-calorie diet become obese but develop neither insulin resistance nor diabetes, suggesting that this protein might be a link between obesity and insulin resistance and diabetes. Mice deficient in both FABP4 and ApoE show protection against atherosclerosis when compared with mice deficient only in ApoE. Mice carrying a FABP4 genetic variant exhibit both reduced FABP4 expression and a reduced potential for developing type 2 diabetes and coronary heart disease. A related study in humans indicated a similar pattern, suggesting that FABP4 may be a potential therapeutic target in the treatment of these disorders.

**Synonyms:**

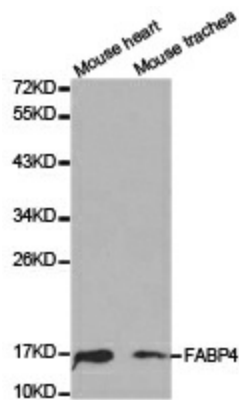
A-FABP; AFABP; ALBP; aP2; HEL-S-104

**Protein Families:**

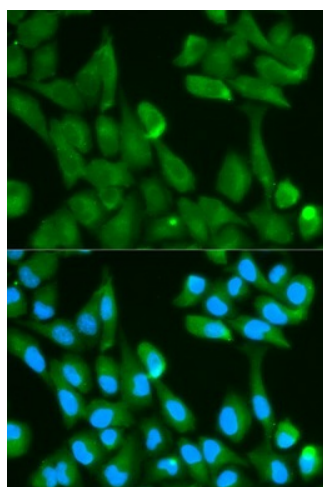
Druggable Genome

**Protein Pathways:**

PPAR signaling pathway

**Product images:**

Western blot analysis of extracts of various cell lines, using FABP4 antibody.



Immunofluorescence analysis of HeLa cell using FABP4 antibody. Blue: DAPI for nuclear staining.