

## Anti-FABP4 Antibody (3V644)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3V644
Purification:	Protein A

## Applications

Verified Activity:	1. Immunochemical staining of human FABP4 in human lung cancer with rabbit monoclonal antibody (1:2000, formalin-fixed paraffin embedded sections).
	2. Immunochemical staining of human FABP4 in human appendix with rabbit monoclonal antibody (1:2000, formalin-fixed paraffin embedded sections).
	3. Flow cytometric analysis of Human FABP4 expression on Hela cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human FABP4, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM,IHC-P
Recommended	IHC-P: 1:1000-1:4000; FCM: 1:25-1:100

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human FABP4 / ALBP / A-FABP protein (TMPY-02103)
Antigen Species:	Human
Synonyms:	fatty acid binding protein 4, adipocyte;A-FABP;HEL-S-104;ALBP;aP2;AFABP
Biology Area:	Early Mesodermal Lineage Markers

## Research Background

Fatty acid-binding protein, adipocyte, also known as Adipocyte-type fatty acid-binding protein, Fatty acid-binding protein 4, Adipocyte lipid-binding protein, and FABP4, is a cytoplasm protein which belongs to the calycin superfamily and Fatty-acid binding protein (FABP) family. In familial combined hyperlipidemia (FCHL), FABP4 correlated to body mass index (BMI), waist circumference and homeostasis model assessment (HOMA) index. FABP4 levels were associated with triglyceride-rich lipoproteins. In humans serum FABP4 levels correlate significantly with features of PCOS. It appears to be a determinant of atherogenic dyslipidemia. FABP4 pathway mediates the sebaceous gland hyperplasia in keratinocyte-specific Pten-null mice. FABP4 concentration significantly increased with an increasing of MS features and was strongly correlated with body-mass index, triglycerides, HDL-cholesterol concentrations and blood pressure. Patients in the highest quartile of FABP4 presented a six-fold increased odds

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ratio for MS and a three-fold increased odds for LD, adjusted by age, sex, body-mass index and the antiretroviral therapy. FABP4 is a strong plasma marker of metabolic disturbances in HIV-infected patients, and therefore, could serve to guide therapeutic intervention in this group of patients.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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