

For Research Use Only

FABP4 Polyclonal antibody

Catalog Number: 15872-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

15872-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8631

GenBank Accession Number:

BC003672

GeneID (NCBI):

2167

UNIPROT ID:

P15090

Full Name:

fatty acid binding protein 4, adipocyte

Calculated MW:

132 aa, 15 kDa

Observed MW:

15 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:8000

IHC: 1:50-1:500

IF: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: human adipose tissue, MC38 cells, mouse skeletal muscle tissue, rat skeletal muscle tissue, mouse adipose tissue, mouse brown adipose tissue, mouse heart tissue, rat adipose tissue

IHC: human colon tissue, human cervix tissue, human skin tissue

IF: mouse adipose, HUVEC cells

Background Information

Fatty acid binding protein (FABP) 4 is a member of the FABP family which abundantly expressed, fatty acid carrier proteins. FABPs are capable of binding a variety of hydrophobic molecules such as long-chain fatty acids and are important for their uptake and intracellular trafficking. It was first identified as an adipocyte-specific protein, important for the maintenance of lipid and glucose metabolism. It is also detected in macrophages, where it participates in regulating inflammation and cholesterol trafficking via NFκB and PPAR. In more recent studies, FABP4 has been found in a variety of endothelial cells, where it has been identified as a target of VEGF and a regulator of cell proliferation and possibly angiogenesis. Pathologically, FABP4 has been associated with the development of metabolic syndrome, diabetes and cancer and vulnerability of atherosclerotic plaques. FABP4 has been identified as a novel prognostic factor for both adverse cardiovascular events and breast cancer.

Notable Publications

Author	Pubmed ID	Journal	Application
Marion Claudia Salzer	30415840	Cell	IF
Xin Peng	35646835	Front Bioeng Biotechnol	WB
J Zhou	25817070	Int J Obes (Lond)	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

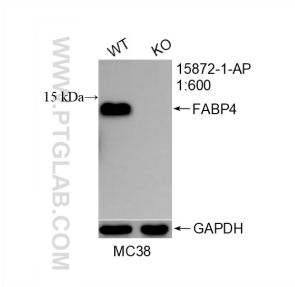
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

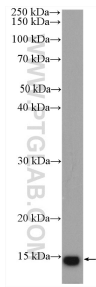
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

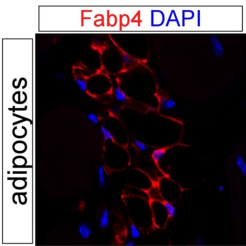
Selected Validation Data



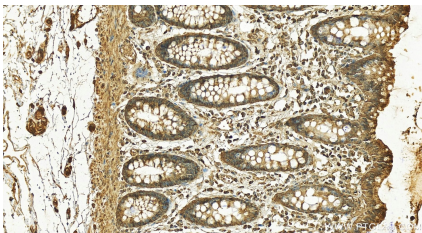
WB result of FABP4 antibody (15872-1-AP; 1:600; room temperature for 1.5 hours) with wild-type and FABP4 knockout MC38 cells.



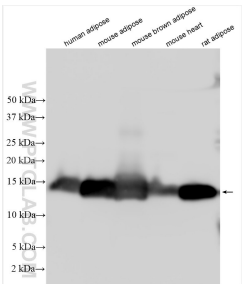
rat skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 15872-1-AP (FABP4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IF result of anti-FABP4 (15872-1-AP, 1:500) with PFA fixed mouse adipose tissue by Dr. Daniel Kopinke.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 15872-1-AP (FABP4 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 15872-1-AP (FABP4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.