

FABP4 Polyclonal antibody

Catalog Number: 15872-1-AP 12 Publications

Basic Information

Catalog Number: 15872-1-AP	GenBank Accession Number: BC003672	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 2167	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200 IF 1:20-1:200
Source: Rabbit	UNIPROT ID: P15090	
Isotype: IgG	Full Name: fatty acid binding protein 4, adipocyte	
Immunogen Catalog Number: AG8631	Calculated MW: 132 aa, 15 kDa	
	Observed MW: 15 kDa	

Applications

Tested Applications:
WB, IF/ICC, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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 : rat skeletal muscle tissue, human adipose tissue, mouse skeletal muscle tissue, mouse adipose tissue, mouse brown adipose tissue, mouse heart tissue, rat adipose tissue

IHC : 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 NF- κ B 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.

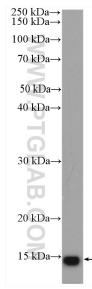
Notable Publications

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

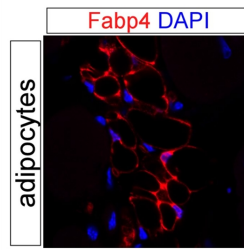
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

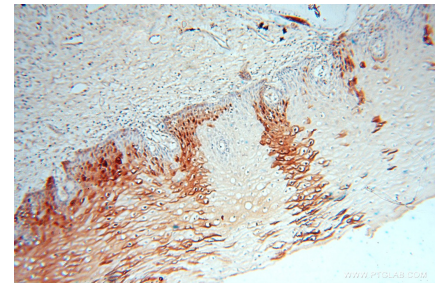
Selected Validation Data



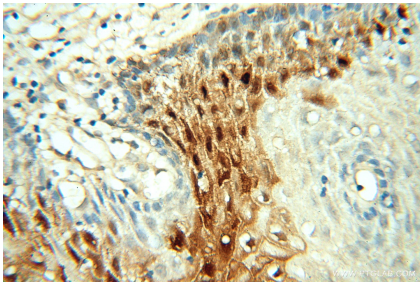
rat skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 15872-1-AP (FABP4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



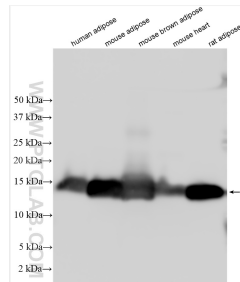
IF result of anti-FABP4 (15872-1-AP, 1:500) with PFA fixed mouse adipose tissue by Dr. Daniel Kopinke.



Immunohistochemical analysis of paraffin-embedded human cervix using 15872-1-AP (FABP4 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human cervix using 15872-1-AP (FABP4 antibody) at dilution of 1:50 (under 40x lens).



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.