

For Research Use Only

# FABP5 Polyclonal antibody

Catalog Number: 12348-1-AP

Featured Product

42 Publications



## Basic Information

### Catalog Number:

12348-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3005

### GenBank Accession Number:

BC019385

### GeneID (NCBI):

2171

### UNIPROT ID:

Q01469

### Full Name:

fatty acid binding protein 5 (psoriasis-associated)

### Calculated MW:

135 aa, 15 kDa

### Observed MW:

15 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**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**: A375 cells, Hepa1-6 cells, HepG2 cells, mouse skin tissue, WB result of FABP5 antibody (12348-1-AP; 1:800; room temperature for 1.5 hours) with wild-type and FABP5 knockout Hepa1-6 cells, HeLa cells, A431 cells

**IP**: A375 cells,

**IHC**: mouse skin tissue,

**IF/ICC**: HeLa cells,

## Background Information

FABP5, also named as PA-FABP and E-FABP, belongs to the calycin superfamily and Fatty-acid binding protein (FABP) family. It is high specificity for fatty acids. FABP5 is highest affinity for C18 chain length. It may be involved in keratinocyte differentiation. FABP5 is a fatty acid-binding protein and is expressed in epidermis and endothelial cells of the microvasculature of different organs. FABP5 has also been identified as a tumor-associated antigen, which is highly expressed in various cancers. FABP5 was detected in the sera of HNSCC patients with early stage cancer. Antibodies specific for FABP5 were significantly increased in a substantial amount in patients, suggesting that FABP5 may be a potential diagnostic biomarker for HNSCC. FABP5 may serve as a biomarker for HNSCC. (PMID:19602232)

## Notable Publications

Author	Pubmed ID	Journal	Application
Haiyan He	36125039	Food Funct	WB
Guangzhen Wu	31491402	Eur J Pharmacol	WB
Yasuhiro Adachi	36089341	J UOEH	WB,IHC

## 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

\*\*\* 20ul sizes contain 0.1% BSA

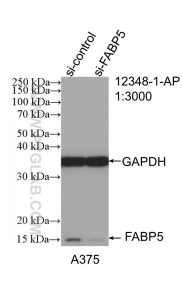
For technical support and original validation data for this product please contact:

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

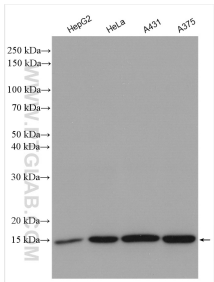
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

Selected Validation Data

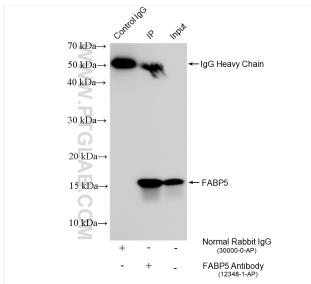
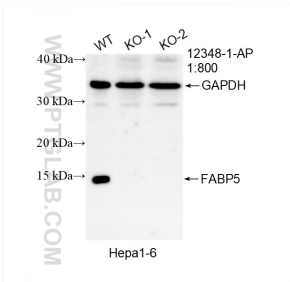


WB result of FABP5 antibody (12348-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FABP5 transfected A375 cells.

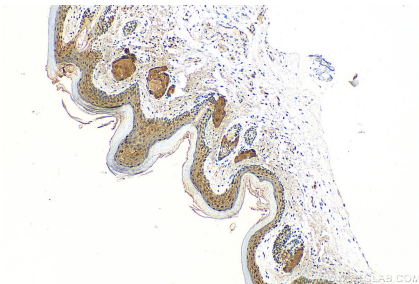


Various lysates were subjected to SDS PAGE followed by western blot with 12348-1-AP (FABP5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

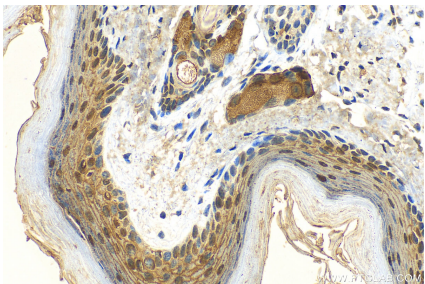
N/A



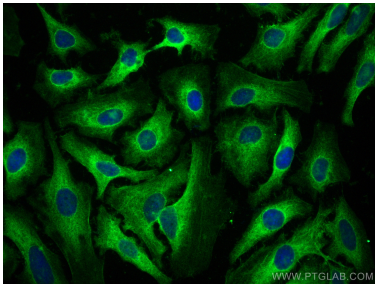
IP result of anti-FABP5 (IP:12348-1-AP, 4ug; Detection:12348-1-AP 1:4000) with A375 cells lysate 1520 ug.



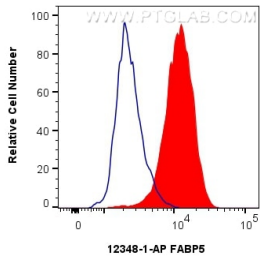
Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 12348-1-AP (FABP5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 12348-1-AP (FABP5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using FABP5 antibody (12348-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug FABP5 Polyclonal antibody (12348-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).