

For Research Use Only

# FABP5 Monoclonal antibody

Catalog Number: 66299-1-Ig

Featured Product

3 Publications



## Basic Information

<b>Catalog Number:</b> 66299-1-Ig	<b>GenBank Accession Number:</b> BC019385	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2171	<b>CloneNo.:</b> 1C6E12
<b>Source:</b> Mouse	<b>Full Name:</b> fatty acid binding protein 5 (psoriasis-WB associated)	<b>Recommended Dilutions:</b> IHC 1:200-1:4000 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 135 aa, 15 kDa	
<b>Immunogen Catalog Number:</b> AG3005	<b>Observed MW:</b> 15 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Cited Applications:**  
IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human

**Positive Controls:**

**WB:** A375 cells, U2OS cells, rat brain tissue, fetal human brain tissue, A549 cells, HeLa cells, HEK-293 cells, mouse brain tissue

**IHC:** human breast cancer tissue, human prostate cancer tissue, mouse brown adipose tissue

**IF:** HepG2 cells,

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

## 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
Masafumi Ohira	33754641	Carcinogenesis	WB,IHC
Jinghui Lu	34976793	Front Oncol	WB
Risa Nakagawa	31432248	Med Mol Morphol	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

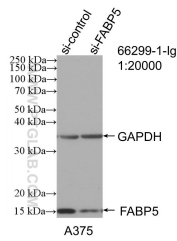
For technical support and original validation data for this product please contact:

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

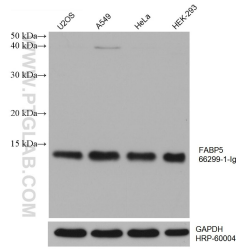
E: proteintech@ptglab.com  
W: ptglab.com

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

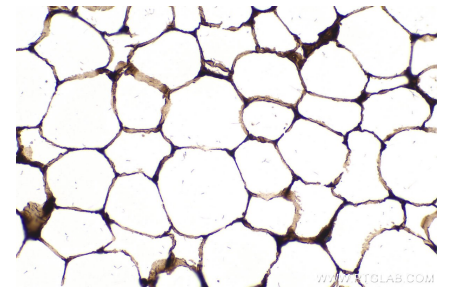
## Selected Validation Data



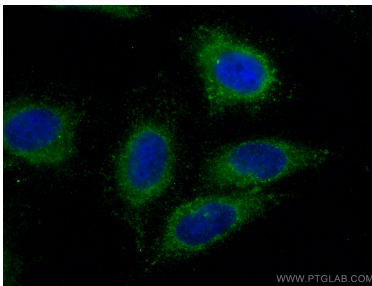
WB result of FABP5 antibody (66299-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FABP5 transfected A375 cells.



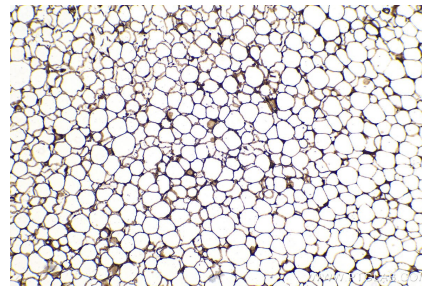
Various lysates were subjected to SDS PAGE followed by western blot with 66299-1-Ig (FABP5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



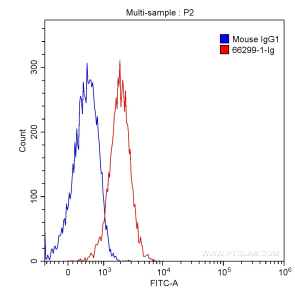
Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 66299-1-Ig (FABP5 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using FABP5 antibody (66299-1-Ig, Clone: 1C6E12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



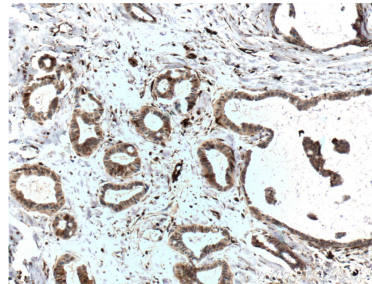
Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 66299-1-Ig (FABP5 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



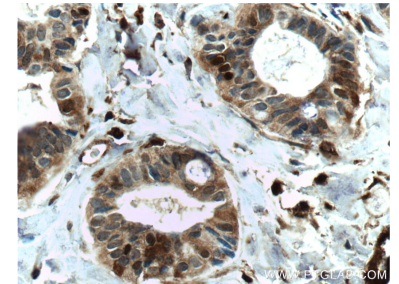
1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.20 ug/test Anti-Human FABP5 (66299-1-Ig, Clone:1C6E12) (red) or 0.20 ug control antibody (blue) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000. Fixed with 90% MeOH.



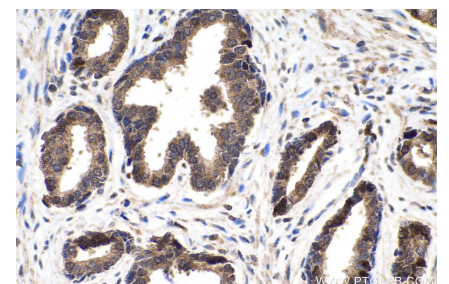
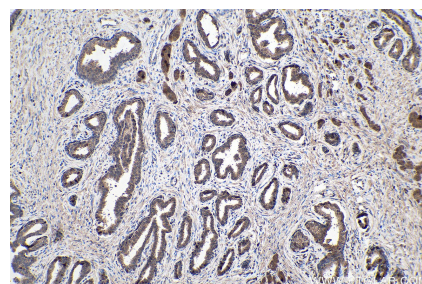
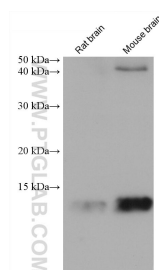
A375 cells were subjected to SDS PAGE followed by western blot with 66299-1-Ig (FABP5 Antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66299-1-Ig (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 human breast cancer tissue slide using 66299-1-Ig (FABP5 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66299-1-Ig (FABP5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66299-1-Ig (FABP5 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66299-1-Ig (FABP5 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).