For Research Use Only

FABP5 Monoclonal antibody

Catalog Number:66299-1-Ig Featured Product 4 Publications

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Basic Information

Catalog Number:
66299-1-Ig

Size:
150ul , Concentration: 1400 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

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:
Protein A purification

CloneNo.:
1C6E12

Recommended Dilutions:
WB 1:2000-1:16000
IHC 1:200-1:4000
IF/ICC 1:200-1:800

Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, 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 : A375 cells, fetal human brain tissue, Hepa1-6 cells, rat brain tissue, U2OS cells, mouse brain tissue, A549 cells, HeLa cells, HEK-293 cells

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

IF/ICC : HepG2 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
Masafumi Ohira	33754641	Carcinogenesis	WB,IHC
Jinghui Lu	34976793	Front Oncol	WB
Risa Nakagawa	31432248	Med Mol Morphol	IHC

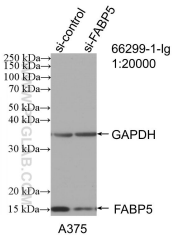
Storage

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

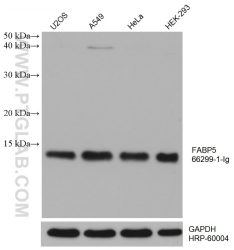
*** 20ul sizes contain 0.1% BSA

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

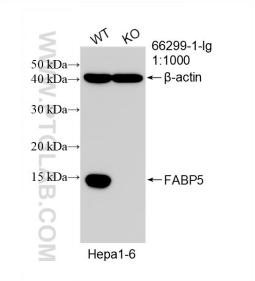
Selected Validation Data



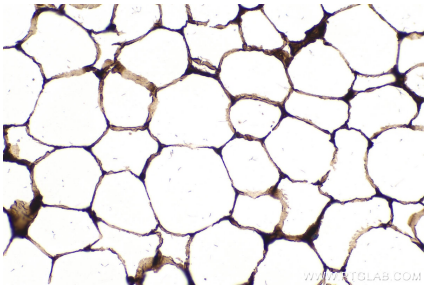
WB result of FABP5 antibody (66299-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FABP5 transfected A375 cells.



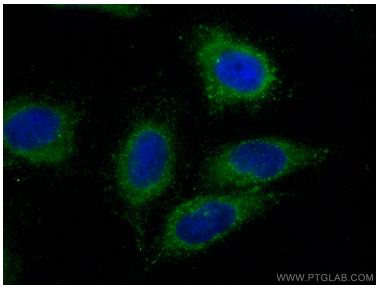
Various lysates were subjected to SDS PAGE followed by western blot with 66299-1-Ig (FABP5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



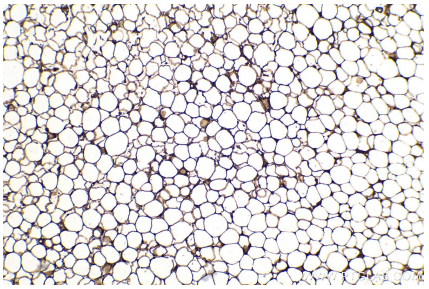
WB result of FABP5 antibody (66299-1-Ig; 1:1000; room temperature for 1.5 hours) with wild-type and FABP5 knockout Hepa1-6 cells.



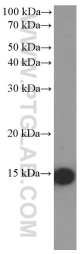
Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 66299-1-Ig (FABP5 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



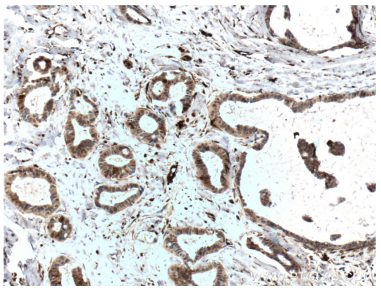
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using FABP5 antibody (66299-1-Ig, Clone: 1C6E12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



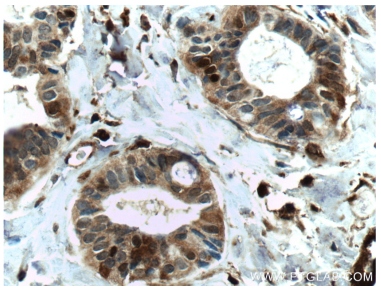
Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 66299-1-Ig (FABP5 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



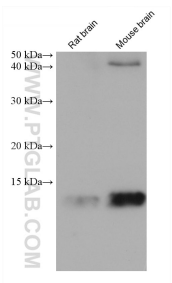
A375 cells were subjected to SDS PAGE followed by western blot with 66299-1-Ig (FABP5 Antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.

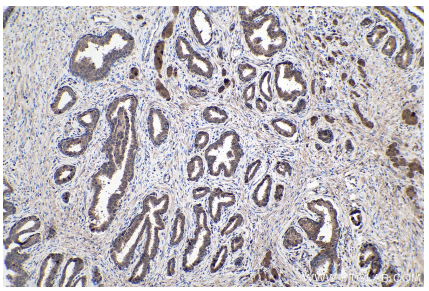


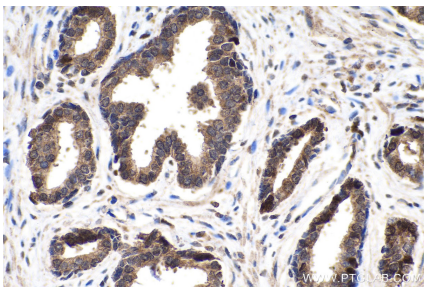
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66299-1-Ig (FABP5 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).