For Research Use Only

FABP4 Polyclonal antibody, PBS Only

Catalog Number:12802-1-PBS Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
12802-1-PBS

Size:
1 mg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3912

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

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

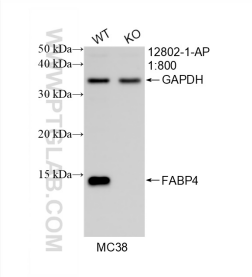
Fatty acid binding protein (FABP) 4 is a member of the FABP family which abundantly expressed, fatty acid carrier proteins. FABPs are capable of binding a variety of hydrophobic molecules such as long-chain fatty acids and are important for their uptake and intracellular trafficking. It was first identified 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.

Storage

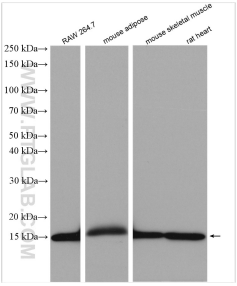
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

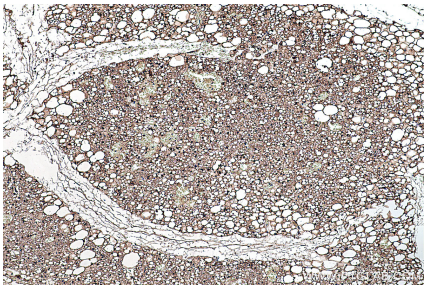
Selected Validation Data



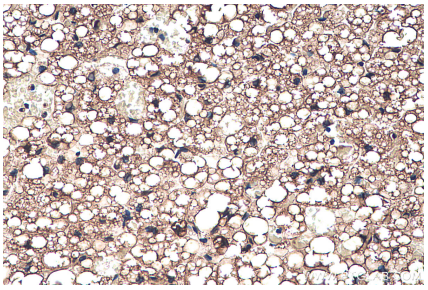
WB result of FABP4 antibody (12802-1-AP; 1:800; room temperature for 1.5 hours) with wild-type and FABP4 knockout MC38 cells. This data was developed using the same antibody clone with 12802-1-PBS in a different storage buffer formulation.



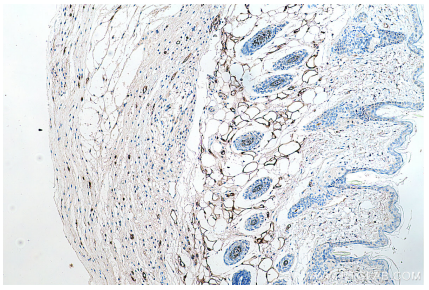
Various lysates were subjected to SDS PAGE followed by western blot with 12802-1-AP (FABP4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12802-1-PBS in a different storage buffer formulation.



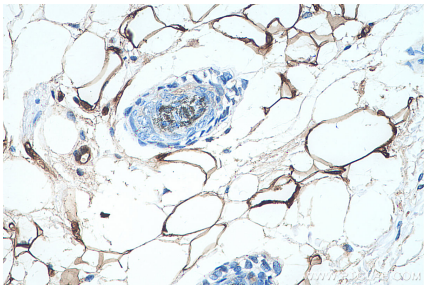
Immunohistochemical analysis of paraffin-embedded rat brown adipose slide using 12802-1-AP (FABP4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12802-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded rat brown adipose slide using 12802-1-AP (FABP4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12802-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 12802-1-AP (FABP4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12802-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 12802-1-AP (FABP4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12802-1-PBS in a different storage buffer formulation.