

For Research Use Only

# FABP4 Monoclonal antibody

Catalog Number: 67167-1-Ig 9 Publications



## Basic Information

<b>Catalog Number:</b> 67167-1-Ig	<b>GenBank Accession Number:</b> BC003672	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1100 ug/ml by Nanodrop and 747 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2167	<b>CloneNo.:</b> 3E7E1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P15090	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:800-1:4000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> fatty acid binding protein 4, adipocyte	
<b>Immunogen Catalog Number:</b> AG8565	<b>Calculated MW:</b> 132 aa, 15 kDa	
	<b>Observed MW:</b> 14 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC	<b>WB :</b> rat heart tissue, mouse heart tissue, pig adipose tissue
<b>Species Specificity:</b> Human, mouse, rat, pig	<b>IHC :</b> human breast cancer tissue,
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 NFκB 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
Aozora Nagaoka	35491170	Biol Pharm Bull	WB
Jie Zhou	35765036	Stem Cell Res Ther	WB
Jinghui Lu	34976793	Front Oncol	WB

## Storage

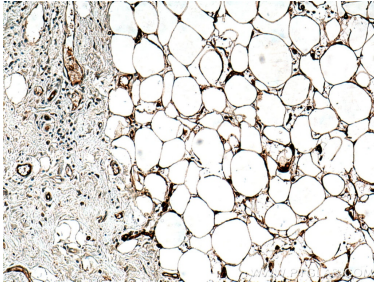
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

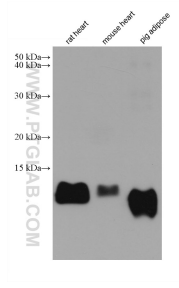
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E: proteintech@ptglab.com  
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67167-1-Ig (FABP4 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 67167-1-Ig (FABP4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.