

For Research Use Only

# FABP4 Polyclonal antibody

Catalog Number: 31129-1-AP

Featured Product



## Basic Information

### Catalog Number:

31129-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_001442.3

### GeneID (NCBI):

2167

### UNIPROT ID:

P15090

### Full Name:

fatty acid binding protein 4, adipocyte

### Calculated MW:

15 kDa

### Observed MW:

15 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

human, mouse, rat

### Positive Controls:

WB: mouse skeletal muscle tissue, MC38 cells, rat heart tissue, rat skeletal muscle tissue

## 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.

## 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

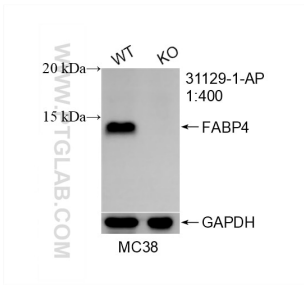
For technical support and original validation data for this product please contact:

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

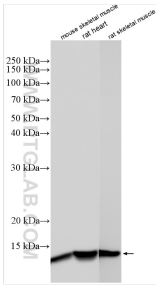
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Selected Validation Data



WB result of FABP4 antibody (31129-1-AP; 1:400; room temperature for 1.5 hours) with wild-type and FABP4 knockout MC38 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 31129-1-AP (FABP4 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.