

FABP4 Antibody

Catalog No: #32030

Package Size: #32030-1 50ul #32030-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	FABP4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total FABP4 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human FABP4.
Conjugates	Unconjugated
Target Name	FABP4
Other Names	FABP4; aP2; ALBP; Fattyacidbindingprotein4; AFABP
Accession No.	Swiss-Prot:P15090NCBI Gene ID:2167
SDS-PAGE MW	15KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

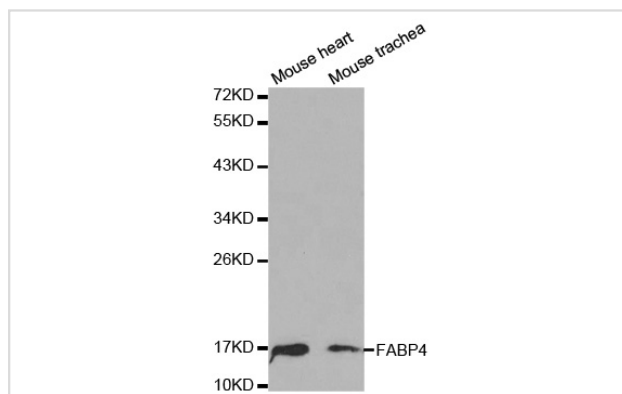
Application Details

Western blotting: 1:500 - 1:2000

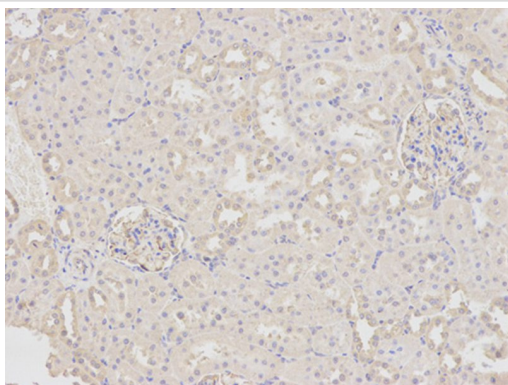
Immunohistochemistry: 1:50 - 1:200

Immunofluorescence: 1:50 - 1:200

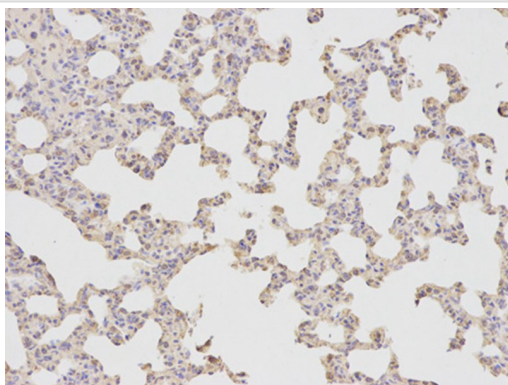
Images



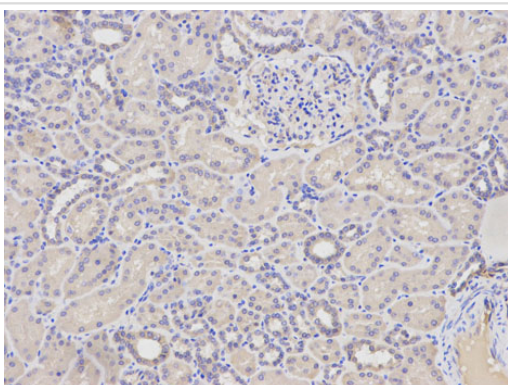
Western blot analysis of extracts of various cell lines , using FABP4 antibody.



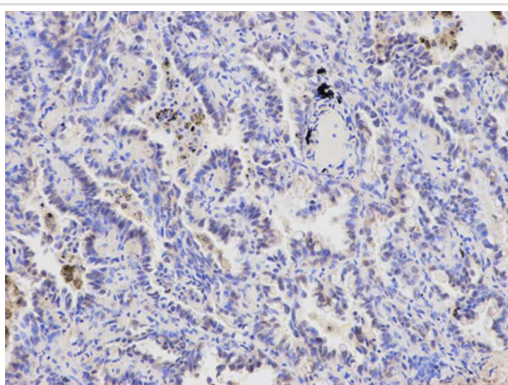
Immunohistochemical analysis of paraffin-embedded human kidney using FABP4 antibody at dilution of 1:200 (200x lens).



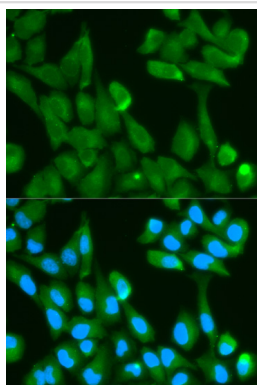
Immunohistochemical analysis of paraffin-embedded human lung cancer using FABP4 antibody at dilution of 1:200 (200x lens).



Immunohistochemical analysis of paraffin-embedded rat kidney using FABP4 antibody at dilution of 1:200 (200x lens).



Immunohistochemical analysis of paraffin-embedded rat lung using FABP4 antibody at dilution of 1:200 (200x lens).



Immunofluorescence analysis of HeLa cell using FABP4 antibody. Blue: DAPI for nuclear staining.

Background

Fatty acid binding proteins (FABPs) bind to fatty acids and other lipids to function as cytoplasmic lipid chaperones (1). They participate in the transport of fatty acids and other lipids to various cellular pathways (2). The predominant fatty acid binding protein found in adipocytes is FABP4, also called adipocyte fatty acid binding protein or aP2. FABP4 is also expressed in macrophages (3). FABP4 knockout mice fed a high-fat and high-calorie diet become obese but develop neither insulin resistance nor diabetes, suggesting that this protein might be a link between obesity and insulin resistance and diabetes (4). Mice deficient in both FABP4 and ApoE show protection against atherosclerosis when compared with mice deficient only in ApoE (3). Mice carrying a FABP4 genetic variant exhibit both reduced FABP4 expression and a reduced potential for developing type 2 diabetes and coronary heart disease. A related study in humans indicated a similar pattern, suggesting that FABP4 may be a potential therapeutic target in the treatment of these disorders (1).

Published Papers

el at., FABP4 accelerates glioblastoma cell growth and metastasis through Wnt10b signalling. In Eur Rev Med Pharmacol Sci. On 2018 Nov by Li HY, Lv BB et al.. PMID:30536325, , (2018)

[PMID:30536325](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.