

Datasheet for ABIN7603145
anti-FABP4 antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	FABP4
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FABP4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-FABP4 Antibody Picoband® (monoclonal, 10E12)
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human FABP4, identical to the related mouse and rat sequences.
Clone:	10E12
Isotype:	IgG1
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-FABP4 Antibody Picoband® (monoclonal, 10E12) (ABIN7603145). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: FABP4

Alternative Name: FABP4 ([FABP4 Products](#))

Background: Synonyms: Adhesion molecule antibody, CD31 antibody, CD31 antigen antibody, CD31 EndoCAM antibody, Endocam antibody, FLJ34100 antibody, FLJ58394 antibody, GPIIA antibody, GPIIA' antibody, PECA1 antibody, PECA1_HUMAN antibody, Pecam 1 antibody, PECAM 1 CD31 EndoCAM antibody, PECAM antibody, PECAM-1 antibody, Pecam1 antibody, Platelet endothelial cell adhesion molecule antibody, Platelet/endothelial cell adhesion molecule 1 antibody, Platelet/endothelial cell adhesion molecule antibody

Tissue Specificity: Expressed on platelets and leukocytes and is primarily concentrated at the borders between endothelial cells. Expressed in human umbilical vein endothelial cells (HUVECs) (at protein level). Expressed on neutrophils (at protein level). Isoform Long predominates in all tissues examined. Isoform Delta12 is detected only in trachea. Isoform Delta14-15 is only detected in lung. Isoform Delta14 is detected in all tissues examined with the strongest expression in heart. Isoform Delta15 is expressed in brain, testis, ovary, cell surface of platelets, human umbilical vein endothelial cells (HUVECs), Jurkat T-cell leukemia, human erythroleukemia (HEL) and U-937 histiocytic lymphoma cell lines (at protein level).

Background: Fatty acid binding proteins (FABPs) are small cytoplasmic proteins that are expressed in a highly tissue-specific manner and bind to fatty acids such as oleic and retinoic acid. Adipocyte fatty-acid-binding protein, aP2 (FABP4) is expressed in adipocytes and macrophages, and integrates inflammatory and metabolic responses. Studies in aP2-deficient mice have shown that this lipid chaperone has a significant role in several aspects of metabolic syndrome, including type 2 diabetes and atherosclerosis. It regulates allergic airway inflammation and may provide a link between fatty acid metabolism and asthma.

Molecular Weight: 15 kDa

Gene ID: 2167

UniProt: [P15090](#)

Pathways: [Brown Fat Cell Differentiation](#)

Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat

Application Details

Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat

1. Hotamisligil, G. S., Johnson, R. S., Distel, R. J., Ellis, R., Papaioannou, V. E., Spiegelman, B. M. : Uncoupling of obesity from insulin resistance through a targeted mutation in aP2, the adipocyte fatty acid binding protein. Science 274: 1377-1379, 1996. 2. Furuhashi, M., Tuncman, G., Gorgun, C. Z., Makowski, L., Atsumi, G., Vaillancourt, E., Kono, K., Babaev, V. R., Fazio, S., Linton, M. F., Sulsky, R., Robl, J. A., Parker, R. A., Hotamisligil, G. S. : Treatment of diabetes and atherosclerosis by inhibiting fatty-acid-binding protein aP2. Nature 447: 959-965, 2007. 3. Shum, B. O. V., Mackay, C. R., Gorgun, C. Z., Frost, M. J., Kumar, R. K., Hotamisligil, G. S., Rolph, M. S. : The adipocyte fatty acid-binding protein aP2 is required in allergic airway inflammation. J. Clin. Invest. 116: 2183-2192, 2006.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.