PRODUCT INFORMATION

FABP4 Polyclonal Antibody
Item No. 10004944

Overview and Properties

Contents: This vial contains peptide affinity-purified IgG.
Synonyms: Adipocyte FABP, A-FABP, ALBP, aP2, Fatty Acid Binding Protein 4
Immunogen: Synthetic peptide from the C-terminal region of human FABP4
Cross Reactivity: (-) FABP3 and FABP5
Species Reactivity: (+) Human, Mouse, and Rat FABP4
Uniprot No.: P15090
Form: Liquid
Storage: -20°C (as supplied)
Stability: ≥1 year
Storage Buffer: PBS, pH 7.2, 50% glycerol, and 0.02% sodium azide
Host: Rabbit
Applications: Immunofluorescence (IF) and Western blot (WB); the recommended starting dilution for IF is 1:500 and 1:1000 for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Images

Lane 1: His-tagged recombinant rat FABP4 lysate (1 µg)
Lane 2: Rat brown fat (30 µg)
FABP4 is primarily expressed in adipocytes but is also expressed in activated macrophages, indicating that the protein plays a critical role in foam cell formation and thus atherosclerosis.\(^1,2\) FABP4 was first purified from mouse 3T3-L1 adipocytes and then from human adipocytes and was named ALBP.\(^3,4\) The expression of FABP4 is developmentally regulated by fatty acids, PPAR\(\gamma\) agonists, and insulin.\(^5,6\) In mice, deficiency of FABP4 prevents the development of hyperinsulinemia and insulin resistance in genetic and diet-induced obesity.\(^7,8\) Cayman's FABP4 Polyclonal Antibody can be used for WB and ICC analysis on samples of human, rat, and mouse origin.

References