

Mouse FABP4/A-FABP Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1443

| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Mouse | |
| Specificity | Detects mouse FABP4 in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant mouse FABP5, recombinant rat (rr) FABP2, and rrFABP1 is observed. | |
| Source | Polyclonal Goat IgG | |
| Purification | Antigen Affinity-purified | |
| Immunogen | E. coli-derived recombinant mouse FABP4 Met1-Ala132 Accession # P04117 | |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. | |

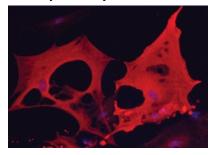
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|----------------------|------------------------------|-------------------------|
| Western Blot | 0.1 μg/mL | Recombinant Mouse FABP4 |
| Immunocytochemistry | 5-15 μg/mL | See Below |
| Immunohistochemistry | 5-15 μg/mL | See Below |

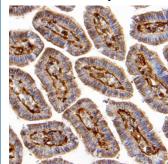
DATA

Immunocytochemistry



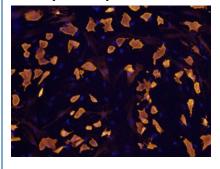
FABP4 in Mouse Adipocytes. FABP4 was detected in immersion fixed mouse mesenchymal stem cell-derived adipocytes using 10 µg/mL Mouse FABP4 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF1443) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



FABP4 in Mouse Intestine. FABP4 was detected in perfusion fixed frozen sections of mouse intestine using Mouse FABP4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1443) at 5 μ g/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the plasma membrane of epithelial cells in intestinal glands. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

Immunocytochemistry



FARP4 in Rat Mesenchymal Stem Cells. FABP4 was detected in immersion fixed rat mesenchymal stem cells differentiated to adipocytes using Mouse FABP4 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF1443) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Reconstitution

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.
 1 month 2 to 8 °C under sterile conditions after reconstitution

Reconstitute at 0.2 mg/mL in sterile PBS.

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

FABP-4 (fatty acid binding protein-4; also Adipocyte-type FABP, ALBP and aP2) is a 14-15 kDa member of the fatty acid binding protein family, calycin superfamily of molecules. It is expressed by adipocytes, macrophages, monocyte-derived DC and myoepithelial cells, and is known to serve as a carrier for select PPARγ fatty acid ligands as they enter the nucleus. These ligands, or fatty acids, facilitate PPARγ-mediated gene transcription. Mouse FABP-4 is 132 amino acids (aa) in length. It is a two β-sheet molecule that contains an NLS (aa 22-32) and a fatty acid binding segment (aa 127-129). Mouse FABP-4 is 94% and 92% aa identical to rat and human FABP-4, respectively.

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