Human FABP4/A-FABP Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3150

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FABP4/A-FABP in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant mouse (rm) FABP4 is observed, approximately 30% cross-reactivity with recombinant human (rh) FABP3 is observed, and less than 5% cross-reactivity with rhFABP1, -2, -5, -6, -7, -8, -9, and rmFABP9 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human FABP4/A–FABP Cys2-Ala132 Accession # P15090
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

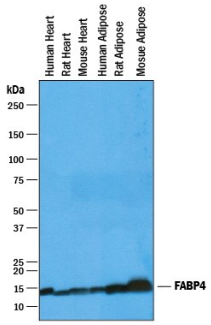
APPLICATIONS

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	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	10 µg/mL	See Below

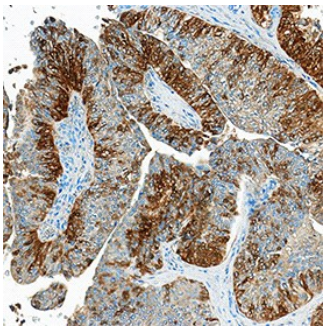
DATA

Western Blot



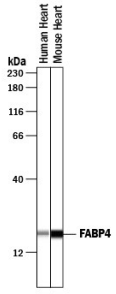
Detection of Human, Mouse, and Rat FABP4/A-FABP by Western Blot. Western blot shows lysates of human heart tissue, rat heart tissue, mouse heart tissue, human adipose tissue, rat adipose tissue, and mouse adipose tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human FABP4/A-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3150) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for FABP4/A-FABP at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



FABP4/A-FABP in Human Bladder Cancer Tissue. FABP4/A-FABP was detected in immersion fixed paraffin-embedded sections of human bladder cancer tissue using Goat Anti-Human FABP4/A-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3150) at 3 µg/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 staining was localized to cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Simple Western



Detection of Human and Mouse FABP4/A-FABP by Simple Western™. Simple Western lane view shows lysates of human heart tissue and mouse heart tissue, loaded at 0.2 mg/mL. A specific band was detected for FABP4/A-FABP at approximately 19 kDa (as indicated) using 10 µg/mL of Goat Anti-Human FABP4/A-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3150) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**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. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

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BACKGROUND

FABP4, also known as adipocyte P2 and A-FABP (adipocyte FABP), is a FABP family member that is expressed in adipocytes and monocyte-derived foam cells. It is a lipid transport protein that binds long chain fatty acid and retinoic acid. Human and mouse FABP4 share 91% amino acid sequence homology.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956