

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human FABP3/H-FABP in direct ELISAs and detects human, mouse, and rat FABP3/H-FABP in Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse (rm) FABP4 and recombinant human (rh) FABP4 is observed, approximately 15% cross-reactivity with recombinant rat (rr) FABP1, rhFABP1, rhFABP2, rhFABP7, and rhFABP8 is observed, and less than 10% cross-reactivity with rrFABP2 and rmFABP5 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FABP3/H-FABP Met1-Ala133 Accession # P05413
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.

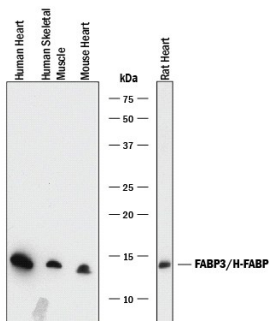
APPLICATIONS

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	0.5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	5 µg/mL	See Below

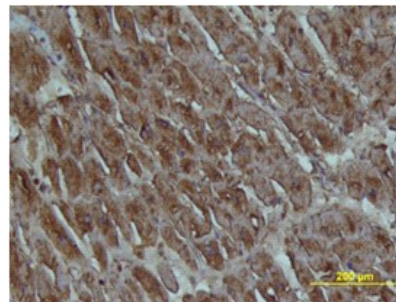
DATA

Western Blot



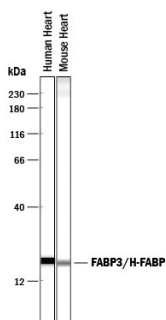
Detection of Human, Mouse, and Rat FABP3/H-FABP by Western Blot. Western blot shows lysates of human heart tissue, human skeletal muscle tissue, mouse heart tissue, and rat heart tissue. PVDF membrane was probed with 0.5 µg/mL of Sheep Anti-Human/Mouse/Rat FABP3/H-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1678) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for FABP3/H-FABP at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



FABP3/H-FABP in Human Heart. FABP3/H-FABP was detected in immersion fixed paraffin-embedded sections of human heart using Sheep Anti-Human/Mouse/Rat FABP3/H-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1678) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) 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 FABP3/H-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 FABP3/H-FABP at approximately 19 kDa (as indicated) using 5 µg/mL of Sheep Anti-Human FABP3/H-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1678) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). 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. <ul style="list-style-type: none">● 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.

BACKGROUND

Human FABP3, also known as FABP-Heart (H-FABP), FABP-Muscle (M-FABP) and mammary derived growth inhibitor (MDGI), is a member of the intracellular FABP family. It plays a role in the transport of long chain fatty acids in the cytoplasm.