

Human FABP5/E-FABP Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF3077

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human FABP5/E-FABP in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 30% cross-reactivity with recombinant mouse (rm) FABP5 is observed and less than 5% cross-reactivity with recombinant human FABP1, -2, -3, -4, -6, -7, and rmFABP9 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli</i> -derived recombinant human FABP5/E-FABP Ala2-Glu135 Accession # Q01469	
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 either lyophilized or as a 0.2 μm filtered solution in PBS.	

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			
Immunocytochemistry	5-15 µg/mL	See Below			
Simple Western	10-12.5 μg/mL	See Below			
Knockout Validated	FABP5/E-FABP is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in FABP5/E-FABP knockout HeLa cell line.				

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DATA Western Blot Simple Western Detection of Human Detection of Human FABP5/E-FABP5/E-FABP by Western FABP by Simple Western[™]. Ilrine Exos Placenta Blot. Western blot shows lysates Simple Western lane view shows of human heart tissue, human lysates of Exosome Standards Human brain (cerebellum) tissue, and (Human Urine) (Catalog # NBP2kDa 150 100 75 human placenta tissue. PVDF 49840) and human placenta tissue, membrane was probed with 1 loaded at 0.5 mg/ml. A specific µg/mL of Goat Anti-Human band was detected for FABP5/E-FABP5/E-FABP Antigen Affinity-FABP at approximately 20 kDa (as purified Polyclonal Antibody FABP5/E-FABF indicated) using 10 µg/ml of Goat 25 (Catalog # AF3077) followed by Anti-Human FABP5/E-FABP HRP-conjugated Anti-Goat IgG 12 20 Antigen Affinity-purified Polyclonal Secondary Antibody (Catalog # Antibody (Catalog # AF3077) FABP5/E-FABP 15 followed by HRP-conjugated Catalog # HAF017). A specific band was detected for FABP5/E-Donkey Anti-Goat Secondary 10 FABP at approximately 15 kDa (as Antibody (Catalog # 042-206). indicated). This experiment was This experiment was conducted conducted under reducina under reducing conditions and conditions and using Immunoblot using the 2-40kDa separation Buffer Group 1. system. Simple Western Immunocytochemistry FABP5/E-FABP in HUVEC **Detection of Human** Human Umbilical Vein FABP5/E-FABP by Simple Endothelial Cells, FABP5/E-Western[™]. Simple Western lane view shows lysates of human heart FABP was detected in immersion kDa fixed HUVEC human umbilical tissue and human placenta tissue, 230 180 vein endothelial cells using Goat loaded at 0.2 mg/mL. A specific Anti-Human FABP5/E-FABP band was detected for FABP5/E-116 Antigen Affinity-purified Polyclonal FABP at approximately 21 kDa (as Antibody (Catalog # AF3077) at 10 indicated) using 10 µg/mL of Goat µg/mL for 3 hours at room Anti-Human FABP5/E-FABP temperature. Cells were stained Antigen Affinity-purified Polyclonal using the NorthernLights™ 557-Antibody (Catalog # AF3077) conjugated Anti-Goat IgG followed by 1:50 dilution of HRP-FABP5/E-FABP Secondary Antibody (red; Catalog conjugated Anti-Goat IgG 12 # Catalog # NL001) and Secondary Antibody (Catalog # counterstained with DAPI (blue). Catalog # HAF109). This Specific staining was localized to experiment was conducted under reducing conditions and using the cvtoplasm. View our protocol for Fluorescent ICC Staining of Non-12-230 kDa separation system. adherent Cells Simple Western **Knockout Validated** Detection of Human Western Blot Shows Human FABP5/E-FABP by Simple FABP5/E-FABP Specificity by kDa Western[™]. Simple Western lane Using Knockout Cell Line. 230 HeLa Hela Western blot shows lysates of view shows lysates of HepG2 kDa 180 human hepatocellular carcinoma HeLa human cervical epithelial 250 116 cell line and HeLa human cervical carcinoma parental cell line and 150-FABP5/E-FABP knockout HeLa epithelial carcinoma cell line. 66 100cell line (KO). PVDF membrane loaded at 0.2 mg/mL. A specific 75 was probed with 1 µg/mL of Goat band was detected for FABP5/E-40 50-Anti-Human FABP5/E-FABP FABP at approximately 21 kDa (as 37 -Antigen Affinity-purified Polyclonal indicated) using 12.5 µg/mL of Antibody (Catalog # AF3077) followed by HRP-conjugated Anti-Goat Anti-Human FABP5/E-FABP 25 — 20 — FABP5/E-FABP Antigen Affinity-purified Polyclonal 15-FABP5E 12 Goat IgG Secondary Antibody Antibody (Catalog # AF3077) 10 (Catalog # Catalog # HAF017). A followed by 1:50 dilution of HRP-- GAPDH specific band was detected for conjugated Anti-Goat IgG FABP5/E-FABP at approximately Secondary Antibody (Catalog # Catalog # HAF109). This 15 kDa (as indicated) in the experiment was conducted under parental HeLa cell line, but is not detectable in knockout HeLa cell reducing conditions and using the line. GAPDH (Catalog # Catalog 12-230 kDa separation system. #AF5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot

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Buffer Group 1.



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PREPARATION AND STORAGE

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Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.	
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.	
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. 	

BACKGROUND

Human FABP-5, also known as epidermal fatty acid binding protein (E-FABP), is a 15 kDa member of a cytosolic fatty acid binding protein superfamily. It is associated with keratinocytes and adipocytes and is suggested to promote fatty acid availability to enzymes, protect cell structures from fatty acid attack, and target fatty acids to nuclear transcription factors. The amino acid sequence of human FABP5 is 80%, 81% and 92% identical to that of mouse, rat and bovine FABP5, respectively.