



# Anti-FABP2 polyclonal antibody [Biotin] (DPABY-531)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	Fatty acid binding proteins are small cytoplasmic lipid binding proteins that are expressed in a tissue specific manner. FABPs bind free fatty acids, cholesterol, and retinoids, and are involved in intracellular lipid transport. Circulating FABP levels are used as indicators of tissue damage. Some FABP polymorphisms have been associated with disorders of lipid metabolism and the development of atherosclerosis. FABP2, also known as intestinal fatty acid binding protein (I-FABP or FABPI) and gut FABP (gFABP), is a member of the cytosolic fatty acid binding protein family. FABP2 mediates the absorption and intracellular transport of dietary long-chain fatty acids. Genetic variations of FABP2 are implicated in obesity and Type II diabetes. Human FABP2 shares 78%, 82%, and 86% amino acid sequence identity with mouse, rat, and canine FABP2, respectively.
<b>Specificity</b>	Detects human FABP2/I-FABP in ELISAs and Western blots. In sandwich immunoassays, less than 0.4% cross-reactivity with recombinant rat FABP2 is observed, and less than 0.1% cross-reactivity with recombinant human (rh)FABP1, -3, -5, -6, -7, -8, rhFABP9, recombinant mouse (rm)FABP4, and rmFABP9 is observed.
<b>Immunogen</b>	E. coli-derived recombinant human FABP2/I-FABP. Ala2-Asp132 Accession Number P12104
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	Western Blot, ELISA Detection (Matched Pair)

<b>Format</b>	Liquid
<b>Size</b>	50 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>Preservative</b>	None
<b>Storage</b>	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.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">FABP2 fatty acid binding protein 2, intestinal [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	FABP2
<b>Synonyms</b>	FABP2; fatty acid binding protein 2, intestinal; FABPI; I-FABP; fatty acid-binding protein, intestinal; fatty acid-binding protein 2; intestinal-type fatty acid-binding protein;
<b>Entrez Gene ID</b>	<a href="#">2169</a>
<b>Protein Refseq</b>	<a href="#">NP_000125</a>
<b>UniProt ID</b>	<a href="#">P12104</a>
<b>Chromosome Location</b>	4q28-q31
<b>Pathway</b>	Fat digestion and absorption; PPAR signaling pathway;
<b>Function</b>	fatty acid binding; transporter activity;