

Recombinant Human, FABP3 His-tagged

Cat. No. FABP3-3678H Lot. No. (See product label)

SPECIFICATION

Product Overview	Total 142 AA. MW: 15.97 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
Species	Human
Source	E.coli
Description	The intracellular fatty acid-binding proteins (FABPs) belongs to a multigene family. FABPs are divided into at least three distinct types, namely the hepatic-, intestinal- and cardiac-type. They form 14-15 kDa proteins and are thought to participate in the uptake, intracellular metabolism and/or transport of long-chain fatty acids. They may also be responsible in the modulation of cell growth and proliferation. Fatty acid-binding protein 3 gene contains four exons and its function is to arrest growth of mammary epithelial cells. This gene is also a candidate tumor suppressor gene for human breast cancer.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5
Research topic	Energy metabolism and body weight regulation
Reconstitution	Add deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting

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Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein
Sequences of amino acids	MKHHHHHHAS VDAFLGTWKL VDSKNFDDYM KSLGVGFATR QVASMTKPTT IIEKNGDILT LKTHSTFKNT EISFKLGVEF DETTADDRKV KSIIVLDGGK LVHLQKWDGQ ETTLVRELID GKLILTLTHG TAVCTRTEK EA
Storage	Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for one week.

GENE INFORMATION

Gene Name	FABP3 fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor) [Homo sapiens]
Official Symbol	FABP3
Synonyms	FABP3; fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor); MDGI; FABP11; H-FABP; O-FABP; fatty acid binding protein 3; fatty acid binding protein 11; mammary-derived growth inhibitor; Fatty acid-binding protein 3, muscle; Fatty acid-binding protein, heart; M-FABP; Muscle fatty acid-binding protein; Mammary-derived growth inhibitor; OTTHUMP00000003898
Gene ID	2170
mRNA Refseq	NM_004102
Protein Refseq	NP_004093

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MIM	134651
UniProt ID	P05413
Chromosome Location	1p33-p32
Pathway	PPAR signaling pathway
Function	fatty acid binding; icosatetraenoic acid binding; long-chain fatty acid transporter activity; transporter activity
Protein FABP3 PDB	1g5w

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