

## Recombinant Human FABP4

**Cat. No.** FABP4-3636H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human FABP4, fused with N-terminal methionin (highlighted), was expressed in E. coli.                                                                                                                                                                                                                |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>               | E.coli                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>          | FABP4 encodes the fatty acid binding protein found in adipocytes. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. It is thought that FABPs roles include fatty acid uptake, transport, and metabolism. |
| <b>Form</b>                 | Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in phosphate bufferd saline.                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>       | 14.7 kDa (calculated)                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>          | MCDAFVG TWK LVSS ENFDDY MKEVG VGFAT RKVAGMAKPN MIISVNGDVI<br>TIKSESTFKN TEISFILGQE FDEVTADDRK VKSTITLDGG VLVHVQKWDG<br>KSTTIK RKRE DDKLVVECVM KGV TSTRVYE RA                                                                                                                                                     |
| <b>Purity</b>               | >90%                                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>         | ELISA; Western blotting                                                                                                                                                                                                                                                                                          |
| <b>Quality Control Test</b> | BCA to determine quantity of the protein.SDS PAGE to determine purity of the                                                                                                                                                                                                                                     |

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|                       |                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | protein.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Notes</b>          | This product is intended for research use only.                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>        | Store lyophilized protein at –20°C. Lyophilized protein remains stable until the expiry date when stored at –20°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 a limited period of time; it does not show any change after one week at 4°C. |
| <b>Reconstitution</b> | Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.                                                                                                   |
| <b>Shipping</b>       | At ambient temperature. Upon receipt, store the product at the temperature recommended below.                                                                                                                                                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FABP4?fatty acid binding protein 4, adipocyte [?Homo sapiens?(human) ]                                                                                                                                                                                       |
| <b>Official Symbol</b> | FABP4                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | Fatty Acid Binding Protein, Adipocyte; FABP-4; Adipocyte lipid-binding protein; A-FABP; ALBP; Adipocyte Bindng Protein AP2;FABP4; fatty acid binding protein 4, adipocyte; aP2; A-FABP; AFABP; Adipocyte lipid-binding protein; Fatty acid-binding protein 4 |
| <b>Gene ID</b>         | 2167                                                                                                                                                                                                                                                         |

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|----------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>mRNA Refseq</b>         | NM_001442                                                                                                    |
| <b>Protein Refseq</b>      | NP_001433                                                                                                    |
| <b>MIM</b>                 | 600434                                                                                                       |
| <b>UniProt ID</b>          | P15090                                                                                                       |
| <b>Chromosome Location</b> | 8q21                                                                                                         |
| <b>Pathway</b>             | Developmental Biology; PPAR signaling pathway; Transcriptional regulation of white adipocyte differentiation |
| <b>Function</b>            | fatty acid binding; transporter activity                                                                     |

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