

## Human FABP4 ELISA Kit | FABP4 elisa kit

Human FABP4 PicoKine ELISA Kit

CATALOG #  
**AAA46664**

REACTIVITY  
**Human**

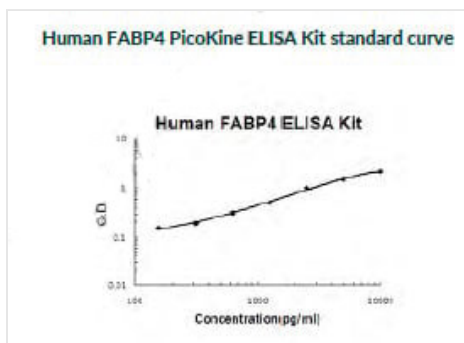
### PRODUCT SYNONYMS

FABP4; Human FABP4 PicoKine ELISA Kit; 422/aP2; A-FABP; AFABP; adipocyte; ALBP; ALBP/Ap2; aP2; HEL S 104; Lbpl; P15; Protein 422; P15090; Fatty acid-binding protein; fatty acid binding protein 4; FABP4 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                |
| Specificity             | Natural and recombinant Human FABP4                                                                                                                  |
| Sequence Length         | 132                                                                                                                                                  |
| Samples                 | Cell culture supernates, serum, plasma(heparin, EDTA) and cell lysates                                                                               |
| Detection Range         | 156pg/ml-10000pg/ml                                                                                                                                  |
| Sensitivity             | <15pg/ml                                                                                                                                             |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.    |
| Inter-assay Precision   | Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice).                           |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for FABP4 elisa kit | Principle of the Assay: The Picokine™ Human FABP4 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human FABP4 with a 96-well strip plate that is pre-coated with antibody specific for FABP4. The detection antibody is a biotinylated antibody specific for FABP4. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human FABP4 with immunogen: Expression system for standard: E.coli; Immunogen sequence: M1-A132. The kit is analytically validated with ready to use reagents. To measure Human FABP4, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human FABP4 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human FABP4 in the sample.!!Background/Introduction: FABP4, also known as aP2 (adipocyte Protein 2), encodes the fatty acid binding protein found in adipocytes. The FABP4 gene is mapped to 8q21. FABP4 functions as a cytosolic lipid chaperone in macrophages and is involved in regulating macrophage endoplasmic reticulum (ER) stress. Additionally, FABP4 protein is expressed in HBEs and is strongly upregulated by both IL4 and IL13 and downregulated by IFN-gamma, suggesting a role in allergic airway inflammation. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 4557579                               |
| NCBI GeneID                      | 2167                                  |
| NCBI Accession #                 | NP_001433.1                           |
| NCBI GenBank Nucleotide #        | NM_001442.2                           |
| UniProt Accession #              | P15090; Q6IBA1                        |
| Molecular Weight                 | 14,719 Da                             |
| NCBI Official Full Name          | fatty acid-binding protein, adipocyte |
| NCBI Official Synonym Full Names | fatty acid binding protein 4          |
| NCBI Official Symbol             | FABP4                                 |
| NCBI Official Synonym Symbols    | aP2; ALBP; AFABP; A-FABP; HEL-S-104   |
| NCBI Protein Information         | fatty acid-binding protein, adipocyte |
| UniProt Protein Name             | Fatty acid-binding protein, adipocyte |
| UniProt Gene Name                | FABP4                                 |
| UniProt Synonym Gene Names       | ALBP; A-FABP; AFABP                   |
| UniProt Entry Name               | FABP4_HUMAN                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.