

Rat FABP4 ELISA Kit | FABP4 elisa kit

Rat FABP4 PicoKine ELISA Kit

CATALOG #
AAA46797

REACTIVITY
Rat

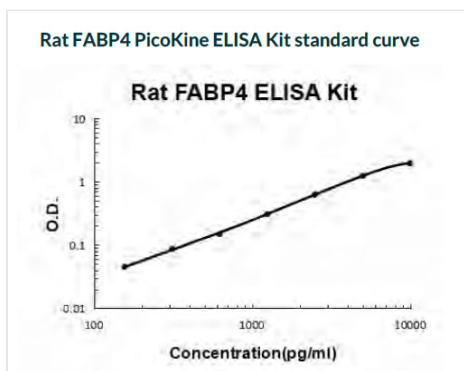
PRODUCT SYNONYMS

FABP4; Rat FABP4 PicoKine ELISA Kit; 422/aP2; A-FABP; AFABP; adipocyte; ALBP; ALBP/Ap2; aP2; HEL S 104; Lbpl; P15; Protein 422; P04117; Fatty acid-binding protein; fatty acid binding protein 4; FABP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Fabp4
Sequence Length	132
Samples	Cell culture supernatants, serum, plasma (heparin, EDTA) and cell lysates
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<15 pg/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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FABP4 elisa kit	Background: 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. Principle of the Assay: The Picokine™ Rat Fabp4 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Rat 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 monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit includes Rat Fabp4 protein as standards. To measure Rat 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 an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Rat Fabp4 in the sample. Read the absorbance 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 Rat Fabp4 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2494405
NCBI GeneID	79451
UniProt Accession #	P70623
Molecular Weight	14,708 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
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

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.