

Anti-Human FABP4 Antibody [PSH25-37] - BSA and Azide free (Capture)

HA725472



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH25-37

Description: Lipid transport protein in adipocytes. Binds both long chain fatty acids and retinoic acid. Delivers long-chain fatty acids and retinoic acid to their cognate receptors in the nucleus. 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.

Immunogen: Recombinant protein within Human FABP4 aa 1-132 (HA211489).

Positive control: Recombinant Human FABP4 protein (HA211489).

Subcellular location: Cytoplasm. Nucleus.

Database links: SwissProt: P15090 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH25-38] to Human FABP4 (Detecor) (HA725473) and Recombinant Human FABP4 protein (HA211489) as the standard. The reference range value is 1.95-500 pg/mL.

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at 2-8℃. Avoid freeze.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

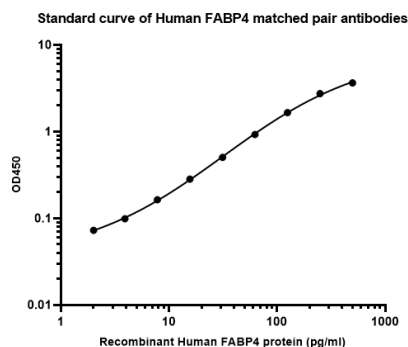
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Sandwich ELISA analysis of Human FABP4 matched pair antibodies

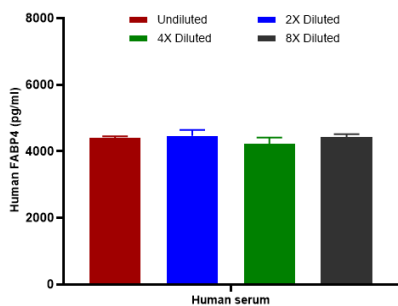
Capture: HA725472, Human FABP4 Rabbit mAb [PSH25-37]
Detector: HA725473, Human FABP4 Rabbit mAb [PSH25-38]



Elisa assay was performed by coating wells of a 96-well plate with 50 μ l per well of capture antibody (HA725472) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human FABP4 protein (HA211489) starting from 500 pg/ml to 0 pg/ml and detect antibody (HA725473, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 50 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Fig2: Interpolated concentrations of native FABP4 in human serum samples.

Capture: HA725472, Human FABP4 Rabbit mAb [PSH25-37]
Detector: HA725473, Human FABP4 Rabbit mAb [PSH25-38]



The concentrations of FABP4 were measured in duplicates, interpolated from the FABP4 standard curve and corrected for sample dilution. Undiluted samples are human serum 10%. The interpolated dilution factor corrected values are plotted (mean $\pm$ SD, n=2). The mean FABP4 concentration was determined to be 4,381 pg/ml in human serum.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

- Ohguro H., Watanabe M., Hikage F., Sato T., Nishikiori N., Umetsu A., Higashide M., Ogawa T., Furuhashi M. Fatty Acid-Binding Protein 4-Mediated Regulation Is Pivotaly Involved in Retinal Pathophysiology: A Review. *Int J Mol Sci* 25:7717-7717 (2024).
- Xu S., Luo J., Wang Y., Chen X. Fatty Acid Binding Protein-4 Silencing Inhibits Ferroptosis to Alleviate Lipopolysaccharide-induced Injury of Renal Tubular Epithelial Cells by Blocking Janus Kinase 2/Signal Transducer and Activator of Transcription 3 Signaling. *J Physiol Investig* 67:47-56 (2024).

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