
HUMAN HEART TYPE FATTY ACID BINDING PROTEIN (HFABP) ELISA KIT

FOR THE QUANTITATIVE DETERMINATION OF HUMAN HFABP/FABP3 CONCENTRATIONS IN SERUM, PLASMA AND CELL CULTURE SUPERNATES



ALWAYS REFER TO LOT SPECIFIC PROTCOL PROVIDED WITH EACH KIT FOR INSTRUCTIONS. PROTOCOL MUST BE READ BEFORE USING THIS PRODUCT.

FOR RESEARCH USE ONLY.NOT FOR USE IN DIAGNOSTIC PROCEDURES.

PRODUCT INFORMATION:

ELISA NAME	HUMAN HFABP/FABPS ELISA	
Catalog No.	SK000213-08	
Formulation	96 T	
Lot No.		
Standard range	3.125-200 ng/mL	
Sensitivity	200 pg/mL	
Sample Volume	100 μL	
Dilution Factor	Optimal dilutions should be determined by each laboratory for each application	
Sample Type	Serum, EDTA Plasma, Cell Culture Supernates	
Specificity	Human HFABP/FABP3	
Calibration	Human HFABP recombinant	
Intra-assay Precision	4 - 6%	
Inter-assay Precision	8 - 10%	
Storage	2 – 8 °C	
This kit contains sufficient materials to run 35 samples duplicated provided that assay is run according to protocol.		

Order Contact:

AVISCERA BIOSCIENCE, INC. 2348 Walsh Ave., Suite C

Santa Clara, CA 95051 Tel: (408) 982 0300

Fax: (408) 982 0301

Email: Sales@AvisceraBioscience.com

Info@AvisceraBioscience.com

www.AvisceraBioscience.com

DESCRIPTION

This Human HFABP/FABP3 ELISA Kit contains the necessary components required for the quantitative measurement of recombinant and/or natural human HFABP/FABP3 from cell culture supernates, serum and plasma in a sandwich ELISA format.

This immunoassay contains recombinant human HFABP/FABP3 and antibodies raised against this protein. Results from this immunoassay have shown to accurately quantify recombinant and natural HFABP/FABP3 samples.

ASSAY OVERVIEW

This assay employs the quantitative sandwich ELISA format. The plate is pre-coated with an antibody specific for human HFABP/FABP3. The capture antibody can bind to the human HFABP/FABP3 in the standard and samples. After washing the plate of any unbound substances, a biotinylated antibody against human HFABP/FABP3 is added to the wells. After another washing of the plate, Streptavidin-HRP Conjugate is added. After the last wash to remove any unbound enzyme, a substrate solution (TMB) is added to the wells and color develops in direct proportion to the amount of human HFABP/FABP3 bound in the standard solutions or samples. A standard curve can be established and sample values can be read off the standard curve.

PROCEDURAL LIMITATIONS

_FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

_This ELISA kit should not be used beyond the expiration date on the kit label.

_Do not mix reagents with those from other lots or sources.

_It is important that the Dilution Buffer selected for the standard curve be consistent with the samples being assayed.

_Each laboratory must determine the optimal dilution factors for the samples being assayed with a pretest. If samples generate values that are not within the dynamic range of the standard curve, further concentrate or dilute the samples as required with Dilution Buffer and repeat the assay.

Any modifications in buffers, pipetting technique.

_Any modifications in buffers, pipetting technique, washing technique, incubation time or temperature, as well as kit age can cause a change in signal.

_Not all interfering factors have been tested in the immunoassay, therefore the possibility of interference cannot be excluded.

COMPONENTS PROVIDED

HFABP/FABP3 Microplate – 96 well microplate coated with an antibody specific for human HFABP/FABP3. 213-08-01 1 plate HFABP/FABP3 Standard – 500 ng/vial of lyophilized recombinant human HFABP/FABP3. Detection Antibody Concentrate – 1.05 mL/vial of 10-fold concentrate of lyophilized biotinylated antibody against human HFABP/FABP3. Positive Control – one vial of lyophilized recombinant human HFABP/FABP3. Streptavidin-HRP Conjugate – 120 μL/vial of 100-fold concentrated solution of Streptavidin-HRP conjugate. Dilution Buffer – 60 mL of buffered solution with preservative. DB10 1 bottle Detection Antibody Diluent Solution – 12 mL of buffered solution with preservative. DB66 1 bottle HRP Diluent Solution – 12 mL of buffered solution with preservative. DB06 1 bottle Wash Buffer – 50 mL of 10-fold concentrated buffered surfactant with preservative. WB01 1 bottle TMB Substrate Solution – 11 mL of TMB substrate solution. TMB01 1 bottle Stop Solution – 11 mL of 0.5M HCl. S-STOP 1 bottle Plate Sealer EAPS 1 piece	DESCRIPTION	CODE	QUANTITY
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STORAGE

Unopened Kit: Store at 2-8 °C for up to 6 months. For longer storage, unopened Standard, Positive Control and Detection Antibody Concentrate should be stored at -20 °C or -70 °C. Do not use kit past expiration date.

Opened / Reconstituted Reagents: Reconstituted Standard (stock) solution and Detection Antibody concentrated solution SHOULD BE STORED at -20 °C or -70 °C for up to one month. Streptavidin-HRP Conjugate 100-fold concentrated solution and TMB Substrate Solution can be stored at 2 – 8 °C for up to 6 months (DO NOT FREEZE and PROTECT FROM LIGHT). All other components may be stored at 2 – 8 °C for up to 6 months.

Microplate Wells: Return unused strips to the plastic pouch with the desiccant pack. Microplate may be stored for up to 6 months at 2-8 °C after opening.

ADDITIONAL MATERIALS REQUIRED

- Microplate reader capable of absorbance measurement at 450 nm.
- Microplate shaker (250 300 rpm).
- Microplate washer or manifold dispenser.
- 100 mL and 500 mL graduated cylinders.
- Multi-channel Pipette, Pipettes and pipette tips.
- Deionized or distilled water.

PRECAUTION

This kit should be handled by those persons who have been trained in and can follow the principles of good laboratory practice. Wear protective clothing such as laboratory overalls, safety glasses and gloves. Care should be taken while handling solutions in this kit to avoid contact with skin or eyes, especially with the stop solution because it contains diluted hydrochloric acid. Wash immediately with water in case of contact on skin or eyes.

SAMPLE COLLECTION AND STORAGE

Cell Culture Supernates – Centrifuge and assay immediately or aliquot and store samples at ≤ -20 °C. Avoid repeated freeze-thaw cycles.

Serum – Use a serum separator tube (SST). Allow blood to clot for 30 minutes. Centrifuge at $1000 \times g$ for 15 minutes and collect serum. Assay samples immediately or aliquot and store at \leq -20 °C. Avoid repeated freeze-thaw cycles.

Plasma – Collect plasma using EDTA, heparin, or citrate as an anticoagulant. Centrifuge at $1000 \times g$ for 15 minutes and collect plasma. Assay samples immediately or aliquot and store at \leq -20 °C. Avoid repeated freeze-thaw cycles.

Optional: Use Aprotinin (enzyme inhibitor) for ALL sample collection to prevent sample degradation. 0.5 TIU per mL of sample solution.

SAMPLE PREPARATION

Human serum and plasma samples do not require dilutions. Optimal dilutions should be determined by each laboratory for each application with a pretest.

Use polypropylene test tubes.

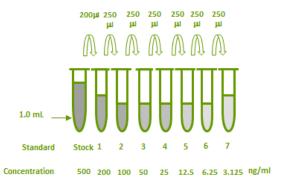
REAGENT PREPARATION

Bring all reagents to room temperature before use.

Wash Buffer – If crystals have formed in the concentrate, warm bottle in a water bath until the crystals have completely dissolved. Dilute 50 mL of Wash Buffer Concentrate into 450 mL distilled or deionized water to make 500 mL of 1x Wash Buffer.

HFABP/FABP3 Standard – Reconstitute the HFABP/FABP3 standard with 1.0 mL of Dilution Buffer. The concentration of the reconstituted stock solution is 500 ng/mL. Allow the stock standard to sit for at least 15 minutes with gentle agitation until completely dissolved prior to making standard dilutions (see below). Mix each tube thoroughly before the next transfer. Make a 2-fold serial dilution with Dilution Buffer with 200 ng/mL as the high standard.

TUBE	STANDARD	DILUTION BUFFER	CONCENTRATION
Stock	powder	1.0 mL	500 ng/mL
#1	200μL of stock	300μL	200 ng/mL
# 2	250μL of 1	250μL	100 ng/mL
# 3	250μL of 2	250μL	50 ng/mL
# 4	250μL of 3	250μL	25 ng/mL
# 5	250μL of 4	250μL	12.5 ng/mL
# 6	250μL of 5	250μL	6.25 ng/mL
# 7	250μL of 6	250μL	3.125 ng/mL



Detection Antibody - Reconstitute the Detection Antibody Concentrate with 1.05 mL of **Detection Antibody Diluent Solution (DB66)** to produce a 10_____

fold concentrated stock solution. Allow the concentrated solution to sit for at least 5 minutes until completely dissolved. Pipette 9.45 mL of Detection Antibody Diluent Solution (DB66) into a 15 mL centrifuge tube and transfer 1.05 mL of 10-fold concentrated stock solution to prepare working solution. Note: This should be prepared 2 hours prior to use.

Streptavidin-HRP Conjugate - Pipette 11.88 mL of HRP Diluent Solution (DB06) into a 15 mL centrifuge tube and transfer 120 μ L of 100-fold concentrated stock solution to prepare working solution. Note: 1x working solution of Streptavidin-HRP should be used within a few days (protect from light). DO NOT FREEZE.

Positive Control - Reconstitute the Positive Control with 1.0 mL Dilution Buffer. **Note:** Positive Control could be used within a few days if stored at -20 °C or -70 °C.

ELISA PROTOCOL

Bring all reagents and samples to room temperature before the start of the assay. Blank, standard dilutions, positive control and samples should be assayed in duplicate. ELISA Protocol may need further optimization.

- 1. Prepare all reagents, standard dilutions, positive control and samples as directed previously.
- 2. Remove unneeded microplate strips from the plate frame and return them to the plastic pouch with the desiccant pack.
- 3. Add 100 μ L per well of **Dilution Buffer** to Blank wells
- 4. Add 100 μL per well of Standard Dilutions, sample, or positive control. Cover with plate sealer and incubate for 2 hours on microplate shaker at room temperature. Prepare Detection Antibody Working solution.
- 5. Aspirate and wash each well with 300 μ L of 1x Wash Buffer four times. After the last wash, aspirate any remaining 1x Wash Buffer, invert the plate and blot against clean paper towel(s).
- Add 100 μL per well of **Detection Antibody** working solution. Cover with plate sealer and
 incubate for 2 hours on microplate shaker at room
 temperature.
- 7. Repeat the aspiration and wash as in step 5.

- Add 100 μL per well of Streptavidin-HRP
 Conjugate working solution. Cover with plate sealer and incubate for 60 minutes on microplate shaker at room temperature. Protect from light.
- 9. Repeat the aspiration and wash as in step 5.
- 10. Add 100 μ L per well of **Substrate Solution**. Incubate for 5-10 minutes on microplate shaker at room temperature. **Protect from light.**
- 11. Add 100 μ L per well of **Stop Solution**. The color in the wells should change from blue to yellow. If the color change does not appear uniform, gently tap the plate to ensure thorough mixing.
- 12. Read plate using a microplate reader set to 450 nm within 15 minutes.

CALCULATION OF RESULTS

Create a standard curve by plotting the log of the known concentrations of the standard dilutions (x-axis) versus the log of its corresponding O.D. (y-axis) and draw the best fit line through the points. It is recommended to use computer software capable of generating a log-log curve fit to more accurately quantify the standard dilutions.

If samples have been diluted, the concentration read from the standard curve must be multiplied by the dilution factor.

SPECIFICITY

Protein	Cross-reactivity	
Human HFABP	100%	
Human BFABP	0	
Human LFABP	0	

TYPICAL STANDARD CURVE

This standard curve is for demonstration only. A new standard curve should be made for each set of samples assaved.

Jampies assayea.		
HUMAN	AVERAGE OD450	
HFABP/FABP3	(CORRECTED)	
STANDARD		
(NG/ML)		
Blank	0 (0.065)	
3.125	0.025	
6.25	0.049	
12.5	0.105	
25	0.234	
50	0.523	
100	1.165	
200	2.183	

- Lot No.:
- **Positive Control:**

SUMMARY OF ASSAY PROCEDURE

PREPARE REAGENTS, SAMPLES AND STANDARD **DILUTIONS** Add 100 μ L of standard dilutions, samples and positive control. Cover with plate sealer and incubate 2 hours on microplate shaker at RT. **Prepare Detection Antibody Working solution.** Aspirate and wash 4 times. Add 100 μL per well of Detection Antibody working solution. Cover with plate sealer and incubate 2 hours on microplate shaker at RT. Aspirate and wash 4 times. Add 100 μ L per well of Streptavidin-HRP Conjugate working solution. Cover with plate sealer and incubate 60 minutes on microplate shaker at RT. Protect from light. Aspirate and wash 4 times. Add 100 µL per well of Substrate Solution. Incubate 5-10 min on microplate shaker at RT. Protect from light. Add 100 μL per well of Stop Solution. Read at 450 nm within 15 minutes.