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Datasheet for ABIN1979257 SERPINA12 ELISA Kit

Publications



Overview

Quantity:	96 tests
Target:	SERPINA12
Reactivity:	Human, Rat, Mouse
Method Type:	Competition ELISA
Detection Range:	1-10.000 pg/mL
Minimum Detection Limit:	1 pg/mL
Application:	ELISA

Product Details

Purpose:	Human/Mouse/Rat Vaspin EIA Kit optimized for serum and cell culture medium. Competition- based ELISA on a 96-well strip plate.
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Cross Reactivity: This EIA kit shows no cross-reactivity with any of the cytokines tested: Ghrelin, Nesfatin, Angiotensin II, NPY and APC.
Cross-Reactivity (Details):	This ELISA kit shows no cross-reactivity with any of the cytokines tested: Ghrelin, Nesfatin, Angiotensin II, NPY and APC.
Sensitivity:	26.2 pg/mL
Characteristics:	Strip plates and additional reagents allow for use in multiple experiments

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	 Quantitative protein detection Establishes normal range The best products for confirmation of antibody array data
Components:	 Pre-Coated 96-well Strip Microplate Wash Buffer Standard Peptide Assay Diluent(s) Biotinylated Peptide HRP-Streptavidin TMB One-Step Substrate Stop Solution Assay Diagram Positive Control Sample Capture Antibody User Manual
Material not included:	 Distilled or deionized water Precision pipettes to deliver 2 µL to 1 mL volumes Adjustable 1-25 mL pipettes for reagent preparation 100 mL and 1 liter graduated cylinders Tubes to prepare standard and sample dilutions Orbital shaker Aluminum foil Saran Wrap Absorbent paper Microplate reader capable of measuring absorbance at 450nm SigmaPlot software (or other software that can perform four-parameter logistic regression models)

Target Details

Target:	SERPINA12
Alternative Name:	Vaspin (SERPINA12 Products)
Background:	Vaspin
Gene ID:	145264
UniProt:	Q8IW75

Application Details	
Application Notes:	Recommended Dilution for serum and plasma samplesHuman: 2X / Mouse: 2X / Rat: 2X
Sample Volume:	100 µL
Assay Time:	5 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards as instructed.
	2. Add 100 µL detection antibody to each well.
	3. Incubate 1.5 h at RT or O/N at 4 °C.
	4. Add 100 μ L standard or sample to each well.
	5. Incubate 2.5 h at RT.
	6. Add 100 µL prepared streptavidin solution.
	7. Incubate 45 min at RT.
	8. Add 100 µL TMB One-Step Substrate Reagent to each well.
	9. Incubate 30 min at RT.
	10. Add 50 μL Stop Solution to each well.
	11. Read plate at 450 nm immediately.
Reagent Preparation:	1. Keep kit reagents on ice during steps. Equilibrate plate to room temperature before opening
	the sealed pouch.
	2. Assay Diluent B (Item E) should be diluted 5-fold with deionized or distilled water.
	3. Briefly centrifuge the Anti-Vaspin Antibody vial (Item N) before use. Add 50 μ L of 1x Assay
	Diluent B into the vial to prepare a detection antibody concentrate. Pipette up and down to mix
	gently.
	4. The antibody concentrate should then be diluted 100-fold with 1x Assay Diluent B. This is
	your anti-Vaspin antibody working solution, which will be used in step 2 of the Assay Procedure.
	NOTE: the following steps may be done during the antibody incubation procedure (step 2 of
	Assay Procedure).
	5. Briefly centrifuge the vial of Biotinylated Vaspin (Item F) before use. Add 5 µL of Item F to 5
	mL of the appropriate Assay Diluent. Pipette up and down to mix gently. The final concentration
	of biotinylated Vaspin will be 100 pg/mL. This solution will only be used as the diluent in step 6
	of Reagent Preparation.
	6. Preparation of Standards: Label 7 microtubes with the following concentrations: 1000 pg/mL
	250 pg/mL, 62.5 pg/mL, 15.6 pg/mL, 3.9 pg/mL, 1 pg/mL and 0 pg/mL. Pipette 300 mL of
	biotinylated Vaspin solution into each tube, except for the 1000 ng/mL (leave this one empty). It
	is very important to make sure the concentration of biotinylated Vaspin is 100 pg/mL in all
	standards. a. Briefly centrifuge the vial of Vaspin (Item C). In the tube labeled 1000 pg/mL,
	pipette 8 μ L of Item C and 792 μ L of 100 pg/mL biotinylated Vaspin solution (prepared in step 5

above). This is your Vaspin stock solution (1000 pg/mL Vaspin, 100 pg/mL biotinylated Vaspin).

Mix thoroughly. b. To make the 250 pg/mL standard, simply pipette 100 µL of Vaspin stock solution into the tube labeled 250 pg/mL. Mix thoroughly. c. Repeat this step with each successive concentration, preparing a dilution series as shown in the illustration below. Each time, use 300 mL of biotinylated Visfatin and 100 mL of the prior concentration until 1 pg/mL is reached. Mix each tube thoroughly before the next transfer. d. The final tube (0 pg/mL Vaspin, 100 pg/mL biotinylated Vaspin) serves as the zero standard (or total binding). 7. Prepare a 10-fold dilution of Item F. To do this, add 2 mL of Item F to 18 mL of the appropriate Assay Diluent. This solution will be used in steps 8 and 10.

8. Positive Control Preparation: briefly centrifuge the positive control vial (Item M). To the tube of Item M, add 101 μ L 1x Assay Diluent B. Also add 2 μ L of 10-fold diluted Item F (prepared in step 7) to the tube. This is a 2-fold dilution of the positive control. Mix thoroughly. The positive control is a cell culture medium sample that is meant to be a system control (to verify that the detection & kit components are working). It may be diluted further if desired, but be sure the final concentration of biotinylated Vaspin is 100 pg/mL.

9. If Item B (20X Wash Concentrate) contains visible crystals, warm to room temperature and mix gently until dissolved. Dilute 20 mL of Wash Buffer Concentrate into deionized or distilled water to yield 400 mL of 1X Wash Buffer. 100 mL 1000 250 62.5 15.6 3.9 1 0 pg/mL pg/mL pg/mL pg/mL pg/mL 100 mL 100 mL 100 mL 100 µl

10. Sample Preparation: Use Assay Diluent A + biotinylated Vaspin to dilute serum/plasma samples. For cell culture medium and other sample types, use 1X Assay Diluent B + biotinylated Vaspin as the diluent. It is very important to make sure the final concentration of the biotinylated Vaspin is 100 pg/mL in every sample.

Example: to make a 4-fold dilution of sample, mix together 2.5 µL of 10-fold diluted Item F (prepared in step 7), 185 mL of appropriate Assay Diluent, and 62.5 µL of your sample, mix gently. The total volume is 250 µl, enough for duplicate wells on the microplate. Do not use Item F diluent from Step 5 for sample preparation. If you plan to use undiluted samples, you must still add biotinylated Vaspin to a final concentration of 100 pg/mL.

Example: Add 2.5 mL of 10-fold diluted Item F to 247.5 mL of sample.

11. Briefly centrifuge the HRP-Streptavidin vial (Item G) before use. The HRP-Streptavidin concentrate should be diluted 500- fold with 1X Assay Diluent B. Note: Do not use Assay Diluent A for HRP-Streptavidin preparation in Step 11.

Sample Preparation:Use Assay Diluent A + biotinylated Vaspin to dilute serum/plasma samples. For cell culturemedium and other sample types, use 1X Assay Diluent B + biotinylated Vaspin as the diluent. Itis very important to make sure the final concentration of the biotinylated Vaspin is 100 pg/mL

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	in every sample. EXAMPLE: to make a 4-fold dilution of sample, mix together 2.5 μ L of 10-fold
	diluted Item F (prepared in step 7), 185 mL of appropriate Assay Diluent, and 62.5 μ L of your
	sample, mix gently. The total volume is 250 μ l, enough for duplicate wells on the microplate. Do
	not use Item F diluent from Step 5 for sample preparation. If you plan to use undiluted samples,
	you must still add biotinylated Vaspin to a final concentration of 100 pg/mL. EXAMPLE: Add 2.5
	mL of 10-fold diluted Item F to 247.5 mL of sample.
Assay Procedure:	1. Keep kit reagents on ice during reagent preparation steps. It is recommended that all
	standards and samples be run at least in duplicate.
	2. Add 100 μL anti-Vaspin antibody (see Reagent Preparation step 4) to each well. Incubate for
	1.5 hours at room temperature with gentle shaking (1-2 cycles/sec). You may also incubate
	overnight at 4 °C.
	3. Discard the solution and wash wells 4 times with 1x Wash Buffer (200-300 μL each), Washing
	may be done with a multichannel pipette or an automated plate washer. Complete removal of
	liquid at each step is essential to good assay performance. After the last wash, remove any
	remaining Wash Buffer by aspirating or decanting. Invert the plate and blot it against clean
	paper towels.
	4. Add 100 μ L of each standard (see Reagent Preparation step 6), positive control (see Reagent
	Preparation step 8) and sample (see Reagent Preparation step 10) into appropriate wells. Be
	sure to include a blank well (Assay Diluent only). Cover wells and incubate for 2.5 hours at room
	temperature with gentle shaking (1-2 cycles/sec) or overnight at 4 °C.
	5. Discard the solution and wash 4 times as directed in Step
	3.
	6. Add 100 μ L of prepared HRP-Streptavidin solution (see Reagent Preparation step 11) to each
	well. Incubate for 45 minutes with gentle shaking at room temperature. It is recommended that
	incubation time should not be shorter or longer than 45 minutes.
	7. Discard the solution and wash 4 times as directed in Step
	3.
	8. Add 100 μ L of TMB One-Step Substrate Reagent (Item H) to each well. Incubate for 30
	minutes at room temperature in the dark with gentle shaking (1-2 cycles/sec).
	9. Add 50 μL of Stop Solution (Item I) to each well. Read absorbances at 450 nm immediately. 1
Calculation of Results:	Calculate the mean absorbance for each set of duplicate standards, controls and samples, and
	subtract the blank optical density. Plot the standard curve using SigmaPlot software (or other
	software which can perform four-parameter logistic regression models), with standard
	concentration on the x-axis and percentage of absorbance on the y-axis. Draw the best-fit curve
	through the standard points.

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Application Details	
Assay Precision:	Intra-Assay: CV < 10 %
	Inter-Assay: CV < 15 %
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Standard, Biotinylated Vaspin peptide, and Positive Control should be stored at -20°C after
	arrival. Avoid multiple freeze-thaws. The remaining kit components may be stored at 4°C.
	Opened Microplate Wells and antibody (Item N) may be stored for up to 1 month at 2° to 8°C.
	Return unused wells to the pouch containing desiccant pack and reseal along entire edge.
Expiry Date:	6 months
Publications	
Product cited in:	Matsui, Tomizawa, Eiho, Kashiwazaki, Edwards, Biffen, Bell, Bahl, Leishman, Murray, Takaku,
	Ueda: "Mechanism of action of inhibition of allergic immune responses by a novel antedrug
	TLR7 agonist." in: Journal of immunology (Baltimore, Md. : 1950), Vol. 189, Issue 11, pp. 5194
	205, (2012) (PubMed).

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