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Datasheet for ABIN454079 Defb14 ELISA Kit

Publication



Overview

Quantity:	96 tests	
Target:	Defb14 (DEFB114)	
Reactivity:	Human	
Method Type:	Sandwich ELISA	
Application:	ELISA	
Product Details		
Purpose:	This immunoassay kit allows for the specific measurement of human 6-keto-PGF1alpha concentrations in cell culture supernates, serum, and plasma.	
Sample Type:	Cell Culture Supernatant, Serum, Plasma	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This assay recognizes recombinant and natural human 6-keto-PGF1alpha .	
Cross-Reactivity (Details):	No significant cross-reactivity or interference was observed.	
Characteristics:	Homo sapiens,Human,Beta-defensin 114,Beta-defensin 14,DEFB-14,Defensin, beta 114,DEFB114,DEFB14	
Components:	 Reagent (Quantity): Assay plate (1), Standard (2), Sample Diluent (1×20 mL), Assay Diluent A (1×10 mL), 	

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Target: Defb14 (DEFB114) Alternative Name: DEFB114 (DEFB114 Products)		 Assay Diluent B (1×10 mL), Detection Reagent A (1×120 μL),
Instruction (1) Microplate reader. Pipettes and pipette tips. EP tube Deionized or distilled water. Target Details Target: Defb14 (DEFB114) Alternative Name: DEFB114 (DEFB114 Products) Application Details Sample Volume: 100 µL Plate: Pre-coated Protocol: This assay employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for 6-keto-PGF1alpha has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any 6-keto-PGF1alpha present is bound by the immobilized antibody. An enzyme-linked monoclonal antibody-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of 6-keto-PGF1alpha bound in the initial step. The color development is stopped and the intensity of the color is measured. Reagent Preparation: Bring all reagents to room temperature before use. Wash Buffer - If crystals have completely dissolved. Dilute 30 mL of Wash Buffer Concentrate into deionized or distilled water to prepare 750 mL of Wash Buffer. Standard - Reconstitute the Standard with 1.0 mL of Sample Diluent. This reconstitution produces a stock solution. Allow the standard to sti for a minimum of 15 minutes with gentle agitation prior to making serial dilutions (Making serial dilution in the wells directly is not permitted). The undiluted standard serves as the high standard. The Sample Diluent serves as the zero standard (0 ng/m).		 Wash Buffer(25 x concentrate) (1×30 mL), Substrate (1×10 mL), 2 Stop Solution (1×10 mL),
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Sample Collection: Cell culture supernates - Remove particulates by centrifugation and assay immediately or	Reagent Preparation:	concentrate, warm to room temperature and mix gently until the crystals have completely dissolved. Dilute 30 mL of Wash Buffer Concentrate into deionized or distilled water to prepare 750 mL of Wash Buffer. Standard - Reconstitute the Standard with 1.0 mL of Sample Diluent. This reconstitution produces a stock solution. Allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making serial dilutions (Making serial dilution in the wells directly is not permitted). The undiluted standard serves as the high standard. The Sample
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Application Details

aliquot and store samples at \leq -20 °C. Avoid repeated freeze-thaw cycles. Serum - Use a serum separator tube (SST) and allow samples to clot for 30 minutes before centrifugation for 15 minutes at approximately 1000 x g. Remove serum and assay immediately or aliquot and store samples at -20 °C. 2 Plasma - Collect plasma using EDTA or heparin as an anticoagulant. Centrifuge samples for 15 minutes at 1000 x g at 2 - 8 °C within 30 minutes of collection. Store samples at \leq -20 °C. Avoid repeated freeze-thaw cycles. Note: Citrate plasma has not been validated for use in this assay.

Assay Procedure:

Allow all reagents to reach room temperature (Please do not dissolve the reagents at 37 °C directly.). All the reagents should be mixed thoroughly by gently swirling before pipetting. Avoid foaming. Keep appropriate numbers of strips for 1 experiment and remove extra strips from microtiter plate. Removed strips should be resealed and stored at 4 °C until the kits expiry date. Prepare all reagents, working standards and samples as directed in the previous sections. Please predict the concentration before assaying. If values for these are not within the range of the standard curve, users must determine the optimal sample dilutions for their particular experiments.

1. Add 100 μL of Standard, Blank, or Sample per well. Cover with the Plate sealer. Incubate for 2 hours at 37 °C .

2. Remove the liquid of each well, don't wash.

3. Add 100 µL of Detection Reagent A working solution to each well. Cover with the Plate sealer. Incubate for 1 hour at 37 °C . Detection Reagent A working solution may appear cloudy. Warm to room temperature and mix gently until solution appears uniform.

4. Aspirate each well and wash, repeating the process three times for a total of three washes. Wash by filling each well with Wash Buffer (approximately 400 μ L) using a squirt bottle, multichannel pipette, manifold dispenser or autowasher. Complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining Wash Buffer by aspirating or decanting. Invert the plate and blot it against clean paper towels.

5. Add 100 μL of Detection Reagent B working solution to each well. Cover with a new Plate sealer. Incubate for 1 hours at 37 °C .

6. Repeat the aspiration/wash as in step 4.

7. Add 90 μ L of Substrate Solution to each well. Cover with a new Plate sealer. Incubate within 30 minutes at 37 °C . Protect from light.

8. Add 50 μ L of Stop Solution to each well. If color change does not appear uniform, gently tap the plate to ensure thorough mixing.

9. Determine the optical density of each well at once, using a microplate reader set to 450 nm. Important Note:

Restrictions:	For Research Use only
	concentration read from the standard curve must be multiplied by the dilution factor.
	produce an adequate but less precise fit of the data. If samples have been diluted, the
	use some related software to do this calculation, such as curve expert 13.0. This procedure will
	of the O.D. and the best fit line can be determined by regression analysis. It is recommended to
	graph. The data may be linearized by plotting the log of the SAA concentrations versus the log
	against the concentration on the y-axis and draw a best fit curve through the points on the
	construct a standard curve by plotting the mean absorbance for each standard on the x-axis
	software capable of generating a four parameter logistic (4-PL) curve-fit. As an alternative,
	zero standard optical density. Create a standard curve by reducing the data using computer
Calculation of Results:	Average the duplicate readings for each standard, control, and sample and subtract the average
	8. Substrate Solution is easily contaminated. Please protect it from light.
	7. Duplication of all standards and specimens, although not required, is recommended.
	elevated absorbance readings.
	6. The wash procedure is critical. Insufficient washing will result in poor precision and falsely
	each reagent.
	between sample additions, and between reagent additions. Also, use separate reservoirs for
	5. To avoid cross-contamination, change pipette tips between additions of each standard level,
	plate should not exceed 10 minutes.
	4. For each step in the procedure, total dispensing time for addition of reagents to the assay
	during the assay.
	Once reagents have been added to the well strips, DO NOT let the 5 strips DRY at any time
	necessary. Do not allow wells to sit uncovered for extended periods between incubation steps.
	3. To ensure accurate results, proper adhesion of plate sealers during incubation steps is
	recommended to suck more than 10 μ l for once pipetting.
	volumes. To minimize imprecision caused by pipetting, ensure that pipettors are calibrated. It is
	The reconstituted Standards can be used only once. This assay requires pipetting of small
	the instruction, and avoid foaming and mix gently until the crystals have completely dissolved.
	2. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	step, without interruption.
	wells are secured in the microtiter frame. This will ensure equal elapsed time for each pipetting
	recommended that all reagents should be freshly prepared prior to use and all required strip-

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Handling Advice:	1. The kit should not be used beyond the expiration date on the kit label.	
	2. Do not mix or substitute reagents with those from other lots or sources.	
	3. If samples generate values higher than the highest standard, further dilute the samples with	
	the Assay Diluent and repeat the assay. Any variation in standard diluent, operator, pipetting	
	technique, washing technique,incubation time or temperature, and kit age can cause variation in	
	binding.	
	4. This assay is designed to eliminate interference by soluble receptors, ligands, binding	
	proteins, and other factors present in biological samples. Until all factors have been tested in	
	the Immunoassay, the possibility of interference cannot be excluded.	
Storage:	4 °C/-20 °C	
Storage Comment:	The Assay Plate, Standard, Detection Reagent A and Detection Reagent B should be stored at -	
	20°C upon being received. After receiving the kit , Substrate should be always stored at 4°C.	
Publications		
Product cited in:	Xue, Chen, Cui, Cao, Zhou, Zheng, Gong: "Expression of hGM-CSF in silk glands of transgenic	
	silkworms using gene targeting vector." in: Transgenic research , Vol. 21, Issue 1, pp. 101-11, (
	2012) (PubMed).	