.-online.com antibodies

Datasheet for ABIN955993 Troponin T ELISA Kit



Overview

Quantity:	96 tests
Target:	Troponin T (Tn T)
Reactivity:	Pig
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of pig
	TNT in serum, plasma and other biological fluids.
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of pig TNT. No significant
	cross- reactivity or interference between pig TNT and analogues was observed. Note: Limited
	by current skills and knowledge, it is impossible for us - complete the cross-reactivity detection
	between pig TNT and all the analogues, therefore, cross reaction may still exist.
Sensitivity:	The minimum detectable dose of pig TNT is typically less than 6.4 pg/mL.
	The Sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest
	protein concentration that could be differentiated from zero. It was determined the mean O.D.
	Value of 20 replicates of the zero calibrator plus three standard deviations.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN955993 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Product Details

Characteristics:	The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody
	specific to TNT. Calibrators or samples are then added to the appropriate microtiter plate wells
	with a biotin-conjugated polyclonal antibody preparation specific for TNT. Next, Avidin
	conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated.
	Then a TMB substrate solution is added to each well. Only those wells that contain TNT, biotin-
	conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-
	substrate reaction is terminated by the addition of a sulfuric acid solution and the color change
	is measured spectrophotometrically at a wavelength of 450 nm +/- 10 nm. The concentration
	of TNT in the samples is then determined by comparing the O.D. of the samples to the
	calibration curve.
Components:	Pre-coated, ready to use 96-well strip plate (1x)
	Calibrator (lyophilized) (2x)
	Calibrator Diluent (1 x 20 mL)
	Detection Reagent A (1 x 120 μL)
	Detection Reagent B (1 x 120 µL)
	Assay Diluent A (2X concentrate) (1 x 6 mL)
	Assay Diluent B (2X concentrate) (1 x 6 mL)
	TMB Substrate (1 x 9 mL)
	Stop Solution (1 x 6 mL)
	Wash Buffer (30X concentrate) (1 x 20 mL)
	Plate sealer for 96 wells (4x).
Material not included:	1. Microplate reader with 450 +/- 10 nm filter.
	2. Precision single or multi-channel pipettes and disposable tips.
	3. Eppendorf Tubes for diluting samples.
	4. De-ionized or distilled water.
	5. Absorbent paper for blotting the microtiter plate.
	6. Container for Wash Solution.

Target Details

Target:	Troponin T (Tn T)
Alternative Name:	Troponin T (Tn T Products)
Application Details	
Comment:	The calibration curve concentrations used for the ELISA's were 1000 pg/mL, 500 pg/mL, 250
Order at www.antibodies-online.com www.antikoerper-online.de www.anticorps-enligne.fr www.antibodies-online.cn	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.co International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN955993 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Application Details

	pg/mL, 125 pg/mL, 62.5 pg/mL, 31.2 pg/mL, 15.6 pg/mL.
Plate:	Pre-coated
Assay Procedure:	1. Determine wells for diluted calibrator, blank and sample. Prepare 7 wells for calibrator, 1 well
	for blank. Add 100 μL each of dilutions of calibrator (read Reagent Preparation), blank and
	samples into the appropriate wells. 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. Incubate for 1 hour at 37°
	C after covering it with the Plate sealer.
	4. Aspirate the solution and wash with 350 μL of 1X Wash Solution to each well using a squirt
	bottle, multi-channel pipette, manifold dispenser or autowasher, and let it sit for 1~2 minutes.
	Remove the remaining liquid from all wells completely by snapping the plate onto absorbent
	paper. Repeat 3 times. After the last wash, remove any remaining Wash Buffer by aspirating or
	decanting. Invert the plate and blot it against absorbent paper.
	5. Add 100 μL of Detection Reagent B working solution to each well. Incubate for 30 minutes at
	37° C after covering it with the Plate sealer.
	6. Repeat the aspiration/wash process for five times as conducted in step 4.
	7. Add 90 μL of Substrate Solution to each well. Cover with a new Plate sealer. Incubate for 15
	25 minutes at 37° C (Don't exceed 30 minutes). Protect from light. The liquid will turn blue by
	the addition of Substrate Solution.
	8. Add 50 μ L of Stop Solution to each well. The liquid will turn yellow by the addition of Stop
	solution. Mix the liquid by tapping the side of the plate. If color change does not appear uniform,
	gently tap the plate to ensure thorough mixing.
	9. Remove any drop of water and fingerprint on the bottom of the plate and confirm there is no
	bubble on the surface of the liquid. Then, run the microplate reader and conduct measurement
	at 450 nm immediately.
	Note:
	1. Assay preparation: Keep appropriate numbers of strips for 1 experiment and remove extra
	strips from microtiter plate. Removed strips should be resealed and stored at -20°C until the kit
	expiration date.
	2. Samples or reagents addition: Please use the freshly prepared Calibrator. Please carefully
	add samples to wells and mix gently to avoid foaming. Do not touch the well wall as possible.
	For each step in the procedure, total dispensing time for addition of reagents or samples to the

assay plate should not exceed 10 minutes. This will ensure equal elapsed time for each

pipetting step, without interruption. Duplication of all calibrators and specimens, although not

	required, is recommended. To avoid cross-contamination, change pipette tips between
	additions of each calibrator level, between sample additions, and between reagent additions.
	Also, use separate reservoirs for each reagent.
	3. Incubation: To ensure accurate results, proper adhesion of plate sealers during incubation
	steps is necessary. Do not allow wells to sit uncovered for extended periods between
	incubation steps. Once reagents have been added to the well strips, DO NOT let the strips DRY
	at any time during the assay. Incubation time and temperature must be observed.
	4. Washing: The wash procedure is critical. Complete removal of liquid at each step is essential
	to good performance. After the last wash, remove any remaining Wash Solution by aspirating or
	decanting and remove any drop of water and fingerprint on the bottom of the plate. Insufficient
	washing will result in poor precision and falsely elevated absorbance reading.
	5. Controlling of reaction time: Observe the change of color after adding TMB Substrate (e.g.
	observation once every 10 minutes), if the color is too deep, add Stop Solution in advance to
	avoid excessively strong reaction which will result in inaccurate absorbance reading.
	6. TMB Substrate is easily contaminated. Please protect it from light.
	7. The environment humidity which is less than 60% might have some effects on the final
	performance, therefore, a humidifier is recommended to be used at that condition.
Calculation of Results:	Average the duplicate readings for each calibrator, control, and samples and subtract the
	average zero calibrator optical density. Create a calibration curve on log-log graph paper, with
	TNT concentration on the y-axis and absorbance on the x-axis. Draw the best fit straight line
	through the calibrator points and it can be determined by regression analysis. Using some plot
	software is also recommended. If samples have been diluted, the concentration read from the
	calibration curve must be multiplied by the dilution factor.
Restrictions:	For Research Use only
Handling	

Storage:	-20 °C
Storage Comment:	All the reagents should be kept according to the labels on vials. The Calibrator, Detection
	Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20° C upon
	being received. The unused strips should be kept in a sealed bag with the desiccant provided to
	minimize exposure to damp air. Opened test kits will remain stable until the expiration date
	shown, provided it is stored as prescribed above.
Expiry Date:	The expiry date is stated on the label.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN955993 | 09/12/2023 | Copyright antibodies-online. All rights reserved.