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Datasheet for ABIN6730964 COL8A1 ELISA Kit

6 Images



Overview

Quantity:	96 tests			
Target:	COL8A1			
Reactivity:	Human			
Method Type:	Sandwich ELISA			
Detection Range:	0.15 ng/mL - 10 ng/mL			
Minimum Detection Limit:	0.15 ng/mL			
Application:	ELISA			
Product Details				
Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COL8a1 in			
	human serum, plasma, tissue homogenates.			
	We offer validation data (WB) for the kit components. So you can be sure to order a reliable			
	ELISA kit product composed of high quality reagents.			
Sample Type:	Plasma, Serum, Tissue Homogenate			
Analytical Method:	Quantitative			
Detection Method:	Colorimetric			
Specificity:	This assay has high sensitivity and excellent specificity for detection of Collagen Type VIII Alpha 1 (COL8a1)			
Cross-Reactivity (Details):	No significant cross-reactivity or interference between Collagen Type VIII Alpha 1 (COL8a1) a analogues was observed.			

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Product Details

Sensitivity:	0.065 ng/mL		
Components:	Pre-coated, ready to use 96-well strip plate, flat buttom		
	Plate sealer for 96 wells		
	Reference Standard		
	Standard Diluent		
	Detection Reagent A		
	Detection Reagent B		
	Assay Diluent A		
	Assay Diluent B		
	 Reagent Diluent (if Detection Reagent is lyophilized) 		
	TMB Substrate		
	Stop Solution		
	Wash Buffer (30 x concentrate)		
	Instruction manual		

Target Details

Target:	COL8A1		
Alternative Name:	Collagen Type VIII Alpha 1 (COL8a1) (COL8A1 Products)		
UniProt:	P27658		

Application Details

Comment:	Information on standard material:			
	The standard might be recombinant protein or natural protein, that will depend on the specific			
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% procli			
	300 in the standard as preservative.			
	Information on reagents:			
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash			
	solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay			
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.			
	Information on antibodies:			
	The provided antibodies and their host vary in different kits.			
Sample Volume:	100 µL			
Assay Time:	3 h			

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Application Details

Plate:	Pre-coated		
Protocol:	1. Prepare all reagents, samples and standards,		
	2. Add 100 μ L standard or sample to each well. Incubate 1 hours at 37 °C,		
	3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37 °C,		
	4. Aspirate and wash 3 times,		
	5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,		
	6. Aspirate and wash 5 times,		
	7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,		
	8. Add 50µL Stop Solution. Read at 450nm immediately.		
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use.		
	2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes a		
	room temperature, shake gently (not to foam). The concentration of the standard in the stoc		
	solution is 20 ng/mL. Firstly dilute the stock solution to 10 ng/mL and the diluted standard		
	serves as the highest standard (10 ng/mL). Then prepare 7 tubes containing 0.5 mL		
	Standard Diluent and use the diluted standard to produce a double dilution series. Mix each		
	tube thoroughly before the next transfer. Set up 7 points of diluted standard such as		
	10 ng/mL, 5 ng/mL, 2.5 ng/mL, 1.25 ng/mL, 0.625 ng/mL, 0.312 ng/mL, 0.156 ng/mL, and		
	the last microcentrifuge tube with Standard Diluent is the blank as 0 ng/mL.		
	3. Detection Reagent A and Detection Reagent B - Briefly spin or centrifuge the stock Detection		
	A and Detection B before use. Dilute to the working concentration with Assay Diluent A and E		
	respectively (1:100).		
	4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized		
	or distilled water to prepare 600 mL of Wash Solution (1x).		
	5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not		
	dump the residual solution into the vial again.		
	Note:		
	1. Making serial dilution in the wells directly is not permitted.		
	 Prepare standard within 15 minutes before assay. Please do not dissolve the reagents at 37 °C directly. 		
	3. Please carefully reconstitute Standards or working Detection Reagent A and B according to		
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved.		
	To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors		
	are calibrated. It is recommended to suck more than 10µL for once pipetting.		
	4. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only		
	once.		
	5. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature		
	and mix gently until the crystals are completely dissolved.		
	6. Contaminated water or container for reagent preparation will influence the detection result.		
Sample Preparation:	 It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should 		

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Storage: Storage Comment:	4 °C/-20 °C 1. For unopened kit: All reagents should be stored according to the labels on the vials. The			
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.			
Handling				
Restrictions:	For Research Use only			
	Inter-Assay: CV < 12%			
	Intra-Assay: CV < 10%			
	CV(%) = SD/meanX100			
	target were tested on 3 different plates, 8 replicates in each plate.			
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of			
	target were tested 20 times on one plate, respectively.			
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of			
	experiment has to be determined.Samples should then be diluted with PBS (pH =7.0-7.2).			
	• Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular			
	recommended dilution factor is for reference only.			
	possibilityof causing a deviation due to the introduced chemical substance. The			
	If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a			
	determinecompatibility with the kit.			
	samples should be slowly thawed and centrifuged toremove precipitates.If the sample type is not specified in the instructions, a preliminary test is necessary to			
	3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen			
	therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤			

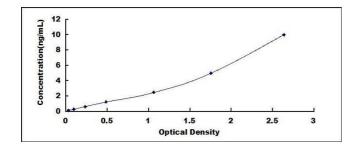
Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored at -20 °C upon receipt, while the other reagents should be stored at 4 °C. 2. For opened kits: the remaining reagents must be stored according to the above storage

conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper.

Expiry Date:

6 months

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kDa 70. 44. 33. 26-22-18-14 10 kDa 94 66.2 45 33 28 20 14.4 15% SDS-PAGE

Image 2.	WB of	Protein	Standard:	different	control
antibodies	against	Highly	purified E	. coli-ex	pressed
recombinar	nt human	COL8a1.			

SDS-PAGE
Image 3. SDS-PAGE of Protein Standard from the Kit (Highly
purified E. coli-expressed recombinant human COL8a1).

Please check the product details page for more images. Overall 6 images are available for ABIN6730964.

ELISA

Western Blotting

Image 1. Typical standard curve

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