

Rabbit Procollagen Type I C-Terminal Propeptide (PICP) ELISA Kit

Catalogue No.:abx054834

Rabbit Procollagen I C-Terminal Propeptide (PICP) ELISA Kit is an ELISA Kit for the in vitro quantitative measurement of Rabbit PICP concentrations in serum, plasma, tissue homogenates, cell lysates and other biological fluids.

Target:	Procollagen Type I C-Terminal Propeptide (PICP)
Reactivity:	Rabbit
Tested Applications:	ELISA
Recommended dilutions:	Optimal dilutions/concentrations should be determined by the end user.
Storage:	Shipped at 4 °C. Upon receipt, store the kit according to the storage instruction in the kit's manual.
Validity:	The validity for this kit is at least 6 months. Up to 12 months validity can be provided on request.
Stability:	The stability of the kit is determined by the rate of activity loss. The loss rate is less than 5% within the expiration date under appropriate storage conditions. To minimize performance fluctuations, operation procedures and lab conditions should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same user throughout.
Test Range:	0.312 ng/ml - 20 ng/ml
Sensitivity:	0.19 ng/ml
Standard Form:	Lyophilized
Detection Method:	Colorimetric
Assay Type:	Sandwich
Assay Data:	Quantitative
Sample Type:	Serum, plasma, tissue homogenates, cell lysates and other biological fluids.



Assay Principle:	This kit is based on sandwich enzyme-linked immuno-sorbent assay technology. An antibody is pre- coated onto a 96-well plate. Standards, test samples, and biotin-conjugated reagent are added to the wells and incubated. The HRP-conjugated reagent is then added, and the whole plate is incubated. Unbound conjugates are removed using wash buffer at each stage. TMB substrate is used to quantify the HRP enzymatic reaction. After TMB substrate is added, only wells that contain sufficient PICP will produce a blue coloured product, which then changes to yellow after adding the acidic stop solution. The intensity of the yellow colour is proportional to the PICP amount bound on the plate. The Optical Density (OD) is measured spectrophotometrically at 450 nm in a microplate reader, from which the concentration of PICP can be calculated.
Kit Components:	The kit components listed are for reference only. The product manual may differ slightly. The product should be used as stated on the product manual included and delivered together with the product. Pre-coated 96-Well Microplate Standard Standard Standard Diluent Buffer Detection Reagent B Diluent A Diluent B TMB Substrate Stop Solution Plate Sealer
Material Required But	• 37°C incubator
Not Provided:	Multi and single channel pipettes and sterile pipette tips
notriotnatai	Squirt bottle or automated microplate washer
	• 1.5 ml tubes
	• Distilled water
	Absorbent filter papers
	100 ml and 1 liter graduated cylinders
	• Microplate reader (wavelength: 450 nm)
	• ELISA Shaker
Reagent Preparation:	This procedure is provided for reference only. The product manual may differ slightly. The product
	should be used as stated on the product manual included and delivered together with the product.
	• 1) Standard: Prepare the standard with the recommended volume of Standard Diluent Buffer, to
	make the standard solution. Then use the Standard Diluent buffer to carry out serial dilutions of the
	standard solution, as instructed in the Protocol.
	• 2) Wash Buffer: Dilute the concentrated Wash Buffer with distilled water, as instructed in the
	Protocol.
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• 3) Detection Reagent Preparation: Calculate the total volume of working solution required. Dilute Detection Reagent A and Detection Reagent B with Diluent A and Diluent B, respectively, at 1:100.

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 9. Add 50 μL of Stop Solution to each well. Read at 450 nm immediately. 		
Results Calculation: For calculation, average the O.D.450 duplicate readings for each reference standard and each	Results Calculation:	For calculation, average the O.D.450 duplicate readings for each reference standard and each
sample and substract the average control (zero) O.D.450 reading. The standard curve can be plotted		
as the relative O.D.450 of each reference standard solution (Y) vs. the respective concentration of		

standard curve.

each standard solution (X). The PICP concentration of the samples can be interpolated from the



Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, medium and high levels of Procollagen I C-Terminal Propeptide (PICP) were were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, medium and high levels of Procollagen I C-Terminal Propeptide (PICP) were tested on 3 different plates, 8 replicates in each plate. CV (%) = (Standard Deviation / mean) × 100

Intra-Assay: CV<10% Inter-Assay: CV<10%

Note:

This product is for research use only.

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The range and sensitivity is subject to change. Please contact us for the latest product information. For accurate results, sample concentrations must be diluted to mid-range of the kit. If you require a specific range, please contact us in advance or write your request in your order comments. Please note that our ELISA and CLIA kits are optimised for detection of native samples, rather than recombinant proteins. We are unable to guarantee detection of recombinant proteins, as they may es to have different sequences or tertiary structures to the native protein.