

# Rabbit N-terminal procollagen III propeptide (PIIINP) ELISA Kit



Catalog No: #EK8694

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Package Size: #EK8694-1 48T #EK8694-2 96T

## Description

Product Name	Rabbit N-terminal procollagen III propeptide (PIIINP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rabbit ( <i>Oryctolagus cuniculus</i> )
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.039 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PIIINP in samples. An antibody specific for PIIINP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIIINP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIIINP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PIIINP bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Plasma levels of PIIINP a marker of extracellular matrix metabolism activity have been linked to abdominal aortic aneurysm growth rate, but its relationship with thoracic aortic aneurysm (TAA) growth has never previously been studied. The PIIINP molecule is an indicator of both the synthesis and the degradation of type III collagen. Occasionally, the removal of PIIINP from the newly-synthesized type III collagen is not complete and the propeptide may remain attached to some of the molecules, known as type IIIpN-collagen. PIIINP is a degradation product of type IIIpN collagen. PIIINP has a molecular weight of 42 000 and contains three distinct domains: a triple-helical domain (Col 3) in the middle of the molecule, the Col 1-domain at the aminoterminal and Col 2-domain at the carboxyterminal end of the propeptide. PIIINP is cleared from the circulation by scavenger receptors in liver endothelial cells.

Note: This product is for in vitro research use only