

Rat Procollagen II C-Terminal Propeptide (PIICP) ELISA Kit | PIICP elisa kit

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CATALOG #
AAA148407

REACTIVITY
Rat

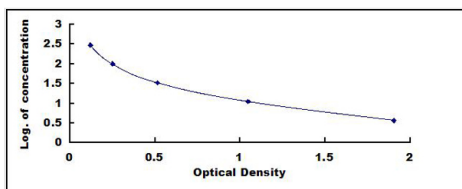
PRODUCT SYNONYMS

Procollagen II C-Terminal Propeptide (PIICP); Rat Procollagen II C-Terminal Propeptide (PIICP) ELISA Kit; P2CP; C-Propeptide Of Type II Procollagen; Procollagen II Carboxy Terminal Propeptide; PIICP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Procollagen II C-Terminal Propeptide (PIICP). No significant cross-reactivity or interference between Procollagen II C-Terminal Propeptide (PIICP) and analogues was observed.
Sequence Length	1419
Assay Type	Competitive Inhibition
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	3.70-300ng/mL
Sensitivity	1.35ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Procollagen II C-Terminal Propeptide (PIICP) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Procollagen II C-Terminal Propeptide (PIICP) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PIICP elisa kit	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Procollagen II C-Terminal Propeptide (PIICP) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Procollagen II C-Terminal Propeptide (PIICP) and unlabeled Procollagen II C-Terminal Propeptide (PIICP) (Standards or samples) with the pre-coated antibody specific to Procollagen II C-Terminal Propeptide (PIICP). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Procollagen II C-Terminal Propeptide (PIICP) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Procollagen II C-Terminal Propeptide (PIICP) in the sample.
Product Categories/Family for PIICP elisa kit	Infection immunity; Bone metabolism; Rheumatology

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978677
NCBI GeneID	25412
NCBI Accession #	NP_037061.1
NCBI GenBank Nucleotide #	NM_012929.1
UniProt Accession #	P05539; Q63123; Q63565; Q78DY3
Molecular Weight	134,570 Da
NCBI Official Full Name	collagen alpha-1(II) chain
NCBI Official Synonym Full Names	collagen type II alpha 1 chain
NCBI Official Symbol	Col2a1
NCBI Official Synonym Symbols	CG2A1A; COLLII
NCBI Protein Information	collagen alpha-1(II) chain
UniProt Protein Name	Collagen alpha-1(II) chain
UniProt Gene Name	Col2a1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/procollagen-ii-c-terminal-propeptide-piicp/148407>