

Rat Collagen Type III (COL3) ELISA Kit | COL3 elisa kit

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CATALOG #
AAA20700

REACTIVITY
Rat

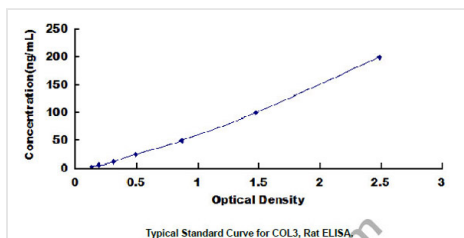
PRODUCT SYNONYMS

Collagen Type III (COL3); Rat Collagen Type III (COL3) ELISA Kit; COL3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of COL3. No significant cross-reactivity or interference between COL3 and analogues was observed.
Sequence Length	1,163
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Range	3.12-200ng/mL
Sensitivity	1.17ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL3 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level COL3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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 COL3 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COL3 in rat serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to COL3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to COL3. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain COL3, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of COL3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for COL3 elisa kit	Metabolic pathway; Cardiovascular biology
References	The Blockade of TACE-Dependent EGF Receptor Activation by Losartan-Erlotinib Combination Attenuates Renal Fibrosis Formation in 5/6-Nephrectomized Rats Under Vitamin D Deficiency; Front Med (Lausanne); 2021 Jan 5;7:609158.; PMID: 33469545; Janaína Garcia Gonçalves; Laboratório de Investigacao Medica 12, Faculdade de Medicina, Universidade de São Paulo, São Paulo, Brazil.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119631316
NCBI GeneID	1281
Molecular Weight	111,907 Da
NCBI Official Full Name	collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant), isoform CRA_b
NCBI Official Synonym Full Names	collagen, type III, alpha 1
NCBI Official Symbol	COL3A1
NCBI Official Synonym Symbols	EDS4A
NCBI Protein Information	collagen alpha-1(III) chain
UniProt Protein Name	Collagen alpha-1(III) chain
UniProt Gene Name	COL3A1
UniProt Entry Name	CO3A1_HUMAN

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/collagen-type-iii-col3/20700>