

Rat Collagen alpha-1(I) chain ELISA Kit | Col1a1 elisa kit

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 CATALOG #
AAA56783

 REACTIVITY
Rat

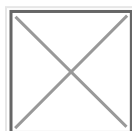
PRODUCT SYNONYMS

Collagen alpha-1(I) chain; Rat Collagen alpha-1(I) chain ELISA Kit; Alpha-1 type I collagen; Col1a1; Col1a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay recognizes recombinant and natural rat Collagen alpha-1(I) chain. No significant cross-reactivity or interference was observed.
Sequence Length	1453
Assay Type	Sandwich
Detection Range	1.56-100 ng/mL
Sensitivity	0.88 ng/mL
Intra-Assay CV	<=5.2%
Inter-Assay CV	<=8.6%
Recovery	96%
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Col1a1 elisa kit

Intended Uses: This immunoassay kit allows for the in vitro quantitative determination of rat Collagen alpha-1(I) chain concentrations in serum, Plasma, tissue homogenates and Cell culture supernates and Other biological fluids.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Collagen alpha-1(I) chain. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for Collagen alpha-1(I) chain and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain Collagen alpha-1(I) chain, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Collagen alpha-1(I) chain in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	158711704
NCBI GeneID	29393
NCBI Accession #	NP_445756.1
NCBI GenBank Nucleotide #	NM_053304.1
UniProt Accession #	P02454; P02455; Q63079; A3KNA1
Molecular Weight	137,953 Da
NCBI Official Full Name	collagen alpha-1(I) chain
NCBI Official Synonym Full Names	collagen, type I, alpha 1
NCBI Official Symbol	Col1a1
NCBI Official Synonym Symbols	COLIA1
NCBI Protein Information	collagen alpha-1(I) chain
UniProt Protein Name	Collagen alpha-1(I) chain
UniProt Gene Name	Col1a1
UniProt Entry Name	CO1A1_RAT

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/col1a1-rat-elisa-kits/collagen-alpha-1-i-chain/56783>