

Rat Collagen Type VI Alpha 1 (COL6a1) ELISA Kit | COL6a1 elisa kit

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CATALOG #
AAA136987

REACTIVITY
Rat

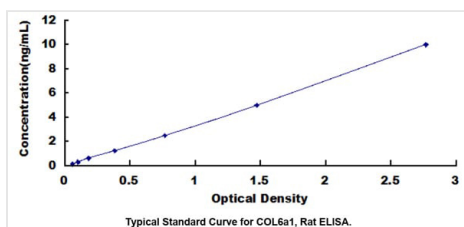
PRODUCT SYNONYMS

Collagen Type VI Alpha 1 (COL6a1); Rat Collagen Type VI Alpha 1 (COL6a1) ELISA Kit; COL6-A1; OPLL; Collagen Alpha-1(VI)chain; COL6a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of COL6a1. No significant cross-reactivity or interference between COL6a1 and analogues was observed.
Sequence Length	1028
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.058ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL6a1 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 COL6a1 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 COL6a1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to COL6a1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to COL6a1. 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 COL6a1, 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 COL6a1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COL6a1 in rat serum, plasma, tissue homogenates and other biological fluids.
Product Categories/Family for COL6a1 elisa kit	Metabolic pathway; Developmental science; Nutrition metabolism; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	119629727
NCBI GeneID	1291
UniProt Accession #	P12109; O00117; O00118; Q14040; Q14041; Q16258; Q7Z645; Q9BSA8
Molecular Weight	108,529 Da
NCBI Official Full Name	collagen, type VI, alpha 1, isoform CRA_b, partial
NCBI Official Synonym Full Names	collagen, type VI, alpha 1
NCBI Official Symbol	COL6A1
NCBI Official Synonym Symbols	OPLL
NCBI Protein Information	collagen alpha-1(VI) chain
UniProt Protein Name	Collagen alpha-1(VI) chain
UniProt Gene Name	COL6A1
UniProt Entry Name	CO6A1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/collagen-type-vi-alpha-1-col6a1/136987>