

Rat collagen, type I, alpha 1 (COL1A1) ELISA Kit | COL1A1 elisa kit

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CATALOG #
AAA245400

REACTIVITY
Rat

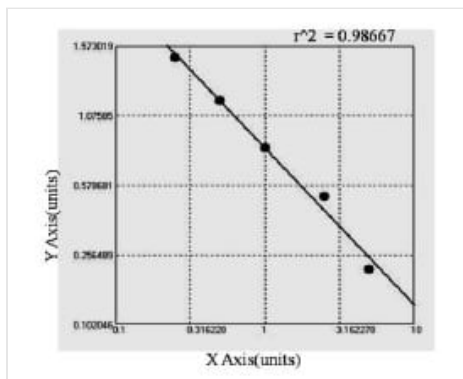
PRODUCT SYNONYMS

collagen; type I; alpha 1 (COL1A1); Rat collagen; alpha 1 (COL1A1) ELISA Kit; COL1A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	250-5000pg/mL
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL1A1 elisa kit

Intended Uses: This COL1a1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat COL1a1. This ELISA kit for research use only!

Principle of the Assay: COL1a1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-COL1a1 antibody and an COL1a1-HRP conjugate. The assay sample and buffer are incubated together with COL1a1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the COL1a1 concentration since COL1a1 from samples and COL1a1-HRP conjugate compete for the anti-COL1a1 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL1a1 from the sample, fewer sites are left to bind COL1a1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL1a1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22328092
NCBI GeneID	1277
Molecular Weight	138,941 Da
NCBI Official Full Name	Collagen, type I, alpha 1
NCBI Official Synonym Full Names	collagen, type I, alpha 1
NCBI Official Symbol	COL1A1
NCBI Official Synonym Symbols	OI4
NCBI Protein Information	collagen alpha-1(I) chain; collagen alpha-1(I) chain; alpha-1 type I collagen; pro-alpha-1 collagen type 1; collagen alpha 1 chain type I; collagen alpha-1(I) chain preproprotein; collagen of skin, tendon and bone, alpha-1 chain
UniProt Protein Name	Collagen alpha-1(I) chain
UniProt Gene Name	COL1A1
UniProt Entry Name	CO1A1_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-i-alpha-1-col1a1/245400>