

Human Collagen Type I Alpha 1 (COL1A1) ELISA Kit | COL1A1 elisa kit

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CATALOG #
AAA331985

REACTIVITY
Human

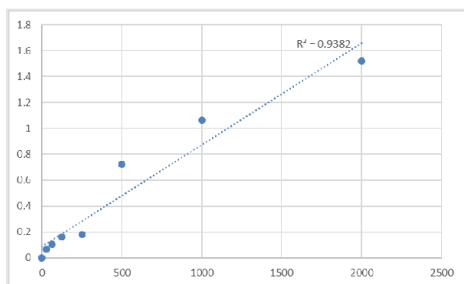
PRODUCT SYNONYMS

Collagen Type I Alpha 1 (COL1A1); Human Collagen Type I Alpha 1 (COL1A1) ELISA Kit; COL1A1; COL-1A1; COL1-A1; COL1A-1; OI4; Collagen Alpha-1(I)chain; COL1A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Collagen Type I Alpha 1 (COL1A1) ELISA Kit has high sensitivity and excellent specificity for detection of Human COL1A1. No significant cross-reactivity or interference between Human COL1A1 and analogues was observed.
Sequence Length	1069
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Collagen Type I Alpha 1 (COL1A1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for COL1A1 elisa kit	Description: This Human Collagen Type I Alpha 1 (COL1A1) ELISA Kit employs a two-site sandwich ELISA to quantitate COL1A1 in samples. An antibody specific for COL1A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any COL1A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for COL1A1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of COL1A1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Collagen, type I, alpha 1 is the major component of type I collagen, the fibrillar collagen found in most connective tissues, including cartilage. The COL1A1 gene produces a component of type I collagen, called the pro-alpha1(I) chain. This chain combines with another pro-alpha1(I) chain and also with a pro-alpha2(I) chain (produced by the COL1A2 gene) to make a molecule of type I procollagen. These triple-stranded, rope-like procollagen molecules must be processed by enzymes outside the cell. Once these molecules are processed, they arrange themselves into long, thin fibrils that cross-link to one another in the spaces around cells. The cross-links result in the formation of very strong mature type I collagen fibers.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1888409
NCBI Official Full Name	collagen type I alpha 1, partial

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://www.aaabiotech.com/human-elisa-kits/collagen-type-i-alpha-1-col1a1/331985>