

Mouse Collagen Type I ELISA Kit | COL1 elisa kit

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CATALOG #
AAA100657

REACTIVITY
Mouse

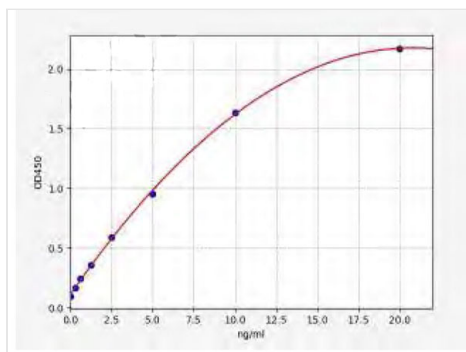
PRODUCT SYNONYMS

Collagen Type I; Mouse Collagen Type I ELISA Kit; COL1/Alpha-1 type I collagen/Collagen alpha-1 (I) chain; COL1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize COL1, no obvious cross reaction with other analogues
Sequence Length	486
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL1 elisa kit	Background: Type I collagen is the most abundant form of collagen found in bone and is synthesized as procollagen, containing both N- and C-terminal extension peptides. It is expressed in almost all connective tissues and the predominant component of the interstitial membrane. Type I collagen mutations have documented important roles in a range of diseases, with particular focus on bone and connective tissue disease, osteogenesis imperfecta and Ehlers-Danlos syndrome. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti COL1 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti COL1 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with COL1 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of COL1 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	957949169
NCBI GeneID	1278
Molecular Weight	129,314 Da
NCBI Official Full Name	collagen type I alpha 2 isoform 5, partial
NCBI Official Synonym Full Names	collagen type I alpha 2
NCBI Official Symbol	COL1A2
NCBI Official Synonym Symbols	OI4
NCBI Protein Information	collagen alpha-2(I) chain
UniProt Protein Name	Collagen alpha-2(I) chain
UniProt Gene Name	COL1A2
UniProt Entry Name	CO1A2_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/col1-mouse-elisa-kits/collagen-type-i/100657>