

Goat Collagen Type I Alpha 2 ELISA Kit | COL1a2 elisa kit

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CATALOG #
AAA90527

REACTIVITY
Goat

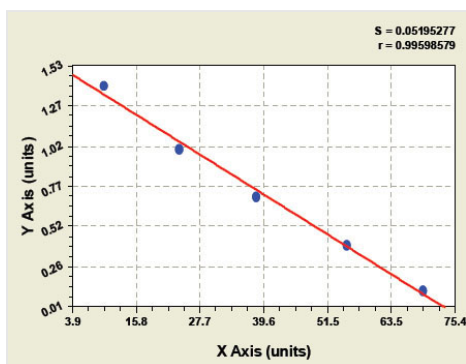
PRODUCT SYNONYMS

Collagen Type I Alpha 2; Goat Collagen Type I Alpha 2 ELISA Kit; COL1a2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Goat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	0.1 ng/ml
Intended Uses	This COL1a2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Goat COL1a2. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL1a2 elisa kit

Principle of the Assay: COL1a2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-COL1a2 antibody and an COL1a2-HRP conjugate. The assay sample and buffer are incubated together with COL1a2-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 COL1a2 concentration since COL1a2 from samples and COL1a2-HRP conjugate compete for the anti-COL1a2 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL1a2 from the sample, fewer sites are left to bind COL1a2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL1a2 concentration in each sample is interpolated from this standard curve.

Product Categories/Family for COL1a2 elisa kit

Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	48762934
NCBI GeneID	1278
NCBI Accession #	NP_000080.2
NCBI GenBank Nucleotide #	NM_000089.3
Molecular Weight	129,314 Da
NCBI Official Full Name	collagen alpha-2(I) chain
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; collagen alpha-2(I) chain; type I procollagen; alpha 2(I)-collagen; alpha-2 type I collagen; collagen I, alpha-2 polypeptide; collagen of skin, tendon and bone, alpha-2 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/col1a2-goat-elisa-kits/collagen-type-i-alpha-2/90527>