

Mouse Collagen Type X ELISA Kit | COL10 elisa kit

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CATALOG #
AAA86099

REACTIVITY
Mouse

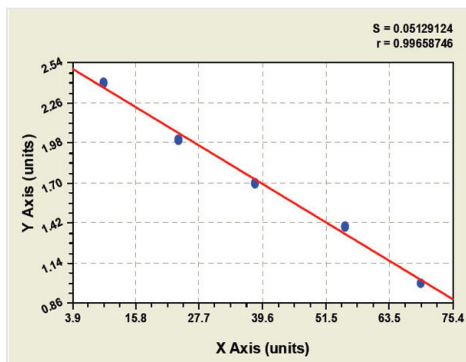
PRODUCT SYNONYMS

Collagen Type X; Mouse Collagen Type X ELISA Kit; COL10 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This COL10 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse COL10. 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 COL10 elisa kit

Principle of the assay: COL10 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-COL10 antibody and an COL10-HRP conjugate. The assay sample and buffer are incubated together with COL10-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 COL10 concentration since COL10 from samples and COL10-HRP conjugate compete for the anti-COL10 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL10 from the sample, fewer sites are left to bind COL10-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL10 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18105032
NCBI GeneID	1300
NCBI Accession #	NP_000484.2
NCBI GenBank Nucleotide #	NM_000493.3
Molecular Weight	66,158 Da
NCBI Official Full Name	collagen alpha-1(X) chain
NCBI Official Synonym Full Names	collagen, type X, alpha 1
NCBI Official Symbol	COL10A1
NCBI Protein Information	collagen alpha-1(X) chain; collagen alpha-1(X) chain; collagen X, alpha-1 polypeptide; Schmid metaphyseal chondrodysplasia
UniProt Protein Name	Collagen alpha-1(X) chain
UniProt Gene Name	COL10A1
UniProt Entry Name	COAA1_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/col10-mouse-elisa-kits/collagen-type-x/86099>