

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

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CATALOG #
AAA84929

REACTIVITY
Mouse

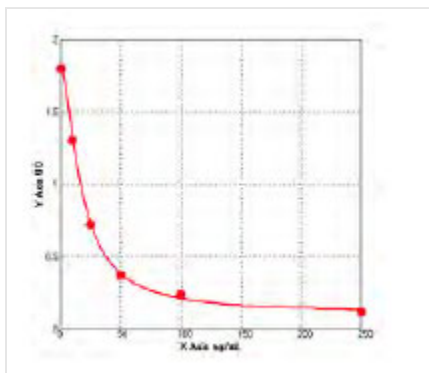
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of COL-1alpha2. No significant cross-reactivity or interference between COL-1alpha2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COL-1alpha2 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL1a2 elisa kit	Intended Uses: This COL-1alpha2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse COL-1alpha2. This ELISA kit for research use only! Principle of the Assay: COL-1alpha2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-COL-1alpha2 antibody and an COL-1alpha2-HRP conjugate. The assay sample and buffer are incubated together with COL-1alpha2-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 COL-1alpha2 concentration since COL-1alpha2 from samples and COL-1alpha2-HRP conjugate compete for the anti-COL-1alpha2 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL-1alpha2 from the sample, fewer sites are left to bind COL-1alpha2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL-1alpha2 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.