

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

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CATALOG #
AAA84283

REACTIVITY
Rat

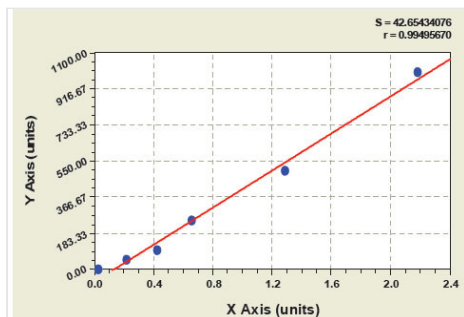
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive or Sandwich
Detection Range	50-1000pg/mL
Sensitivity	1.0pg/ml
Intended Uses	This COL1a2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat 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 quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for COL1a2. Standards or samples are then added to the microtiter plate wells and COL1a2 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of COL1a2 present in the sample, a standardized preparation of horseradish peroxidase (HRP) -conjugated polyclonal antibody, specific for COL1a2 are added to each well to "sandwich" the COL1a2 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain COL1a2 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. 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.

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.