

Bovine Collagen Type II ELISA Kit | COL2 elisa kit

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CATALOG #
AAA92313

REACTIVITY
Bovine

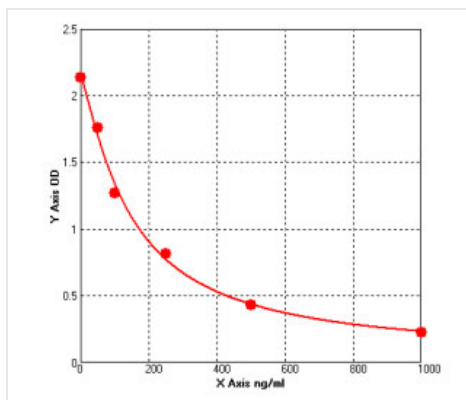
PRODUCT SYNONYMS

Collagen Type II; Bovine Collagen Type II ELISA Kit; COL2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	This assay has high sensitivity and excellent specificity for detection of COL-2. No significant cross-reactivity or interference between COL-2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COL-2 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL
Intended Uses	This COL2ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Bovine COL2. 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 COL2 elisa kit	Principle of the Assay: COL-2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-COL-2 antibody and an COL-2-HRP conjugate. The assay sample and buffer are incubated together with COL-2-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-2 concentration since COL-2 from samples and COL-2-HRP conjugate compete for the anti-COL-2 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL-2 from the sample, fewer sites are left to bind COL-2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL-2 concentration in each sample is interpolated from this standard curve. Intended Uses: This COL-2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Bovine COL-2. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for COL2 elisa kit	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	119578374
NCBI GeneID	1280
Molecular Weight	29,781 Da
NCBI Official Full Name	collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_e
NCBI Official Synonym Full Names	collagen, type II, alpha 1
NCBI Official Symbol	COL2A1
NCBI Official Synonym Symbols	AOM; ANFH; SEDC; STL1; COL11A3
NCBI Protein Information	collagen alpha-1(II) chain; collagen alpha-1(II) chain; chondrocalcin; cartilage collagen; alpha-1 type II collagen; collagen II, alpha-1 polypeptide; arthroophthalmopathy, progressive (Stickler syndrome)
UniProt Protein Name	Collagen alpha-1(II) chain
UniProt Gene Name	COL2A1
UniProt Entry Name	CO2A1_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/col2-bovine-ovine-elisa-kits/collagen-type-ii/92313>