

Sheep Collagen Type II ELISA Kit | COL2 elisa kit

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CATALOG #
AAA91097

REACTIVITY
Sheep

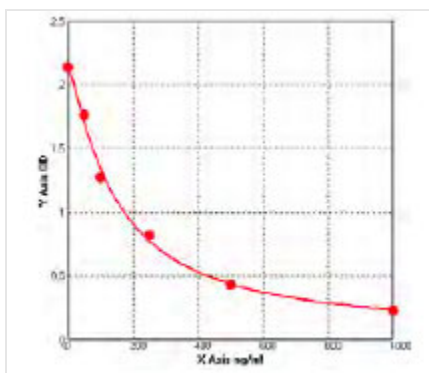
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Sheep
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 COL2 elisa kit

Intended Uses: This COL-2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Sheep COL-2. This ELISA kit for research use only!

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.

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-sheep-elisa-kits/collagen-type-ii/91097>