

Cattle COL2a1 (Collagen Type II Alpha 1) ELISA Kit | COL2a1 elisa kit

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CATALOG #
AAA277837

REACTIVITY
Cattle

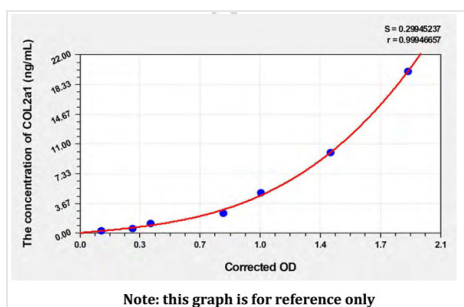
PRODUCT SYNONYMS

COL2a1 (Collagen Type II Alpha 1); Cattle COL2a1 (Collagen Type II Alpha 1) ELISA Kit; COL2-A1; COL2A1; SEDC; Chondrocalcin; Collagen Alpha-1 (II)Chain; Primary Osteoarthritis; Spondyloepiphyseal Dysplasia; Congenital; COL2a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Cattle
Specificity	This assay has high sensitivity and excellent specificity for detection of Cattle COL2a1. No significant cross-reactivity or interference between Cattle COL2a1 and analogues was observed.
Assay Type	Sandwich
Detection Range	0.32-20 ng/mL
Sensitivity	0.13 ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay)? CV% < 8%. Three samples of known concentration were tested twenty times on 1 plate to assess intra-assay precision.
Inter-assay Precision	Inter-assay Precision (precision between assays)? CV% < 10%. Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL2a1 elisa kit

Principle of the Assay: The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Cattle COL2a1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Cattle COL2a1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Cattle COL2a1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Cattle COL2a1 in the samples is then determined by comparing the OD of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	164414425
NCBI GeneID	407142
NCBI Accession #	NP_001001135.2
NCBI GenBank Nucleotide #	NM_001001135.2
UniProt Accession #	P02459; Q28070; Q9XT24; Q9XT25
Molecular Weight	141,828 Da
NCBI Official Full Name	collagen alpha-1(II) chain isoform 1
NCBI Official Symbol	COL2A1
NCBI Official Synonym Symbols	CB11
NCBI Protein Information	collagen alpha-1(II) chain; collagen alpha-1(II) chain; alpha-1 type II collagen; cyanogen bromide; pro-alpha 1(II)
UniProt Protein Name	Collagen alpha-1(II) chain
UniProt Gene Name	COL2A1
UniProt Entry Name	CO2A1_BOVIN

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://www.aaabiotech.com/cat-cattle-elisa-kits/col2a1-collagen-type-ii-alpha-1/277837>