

Cattle COL1a1 (Collagen Type I Alpha 1) ELISA Kit | COL1a1 elisa kit

Cattle COL1a1 (Collagen Type I Alpha 1) ELISA Kit

CATALOG #
AAA277836

REACTIVITY
Cattle

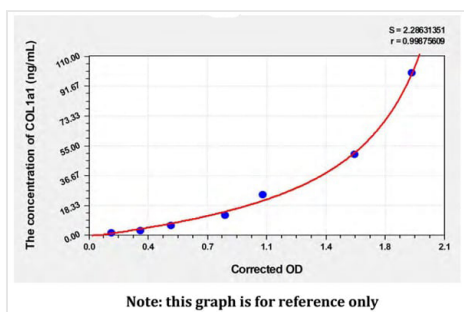
PRODUCT SYNONYMS

COL1a1 (Collagen Type I Alpha 1); Cattle COL1a1 (Collagen Type I Alpha 1) ELISA Kit; COL-1A1; COL1-A1; COL1A-1; OI4; Collagen Alpha-1 (I)chain; COL1a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Cattle
Specificity	This assay has high sensitivity and excellent specificity for detection of Cattle COL1a1. No significant cross-reactivity or interference between Cattle COL1a1 and analogues was observed.
Assay Type	Sandwich
Detection Range	1.57-100 ng/mL
Sensitivity	0.55 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 COL1a1 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 COL1a1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Cattle COL1a1. 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 COL1a1, 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 $\pm$ 10nm. The concentration of Cattle COL1a1 in the samples is then determined by comparing the OD of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	77404252
NCBI GeneID	282187
NCBI Accession #	NP_001029211.1
NCBI GenBank Nucleotide #	NM_001034039.1
UniProt Accession #	P02453; Q3MHM2; Q862R9; Q862S4; Q95ND8; Q95ND9
Molecular Weight	138,938 Da
NCBI Official Full Name	collagen alpha-1(I) chain
NCBI Official Symbol	COL1A1
NCBI Official Synonym Symbols	MGC128258
NCBI Protein Information	collagen alpha-1(I) chain; collagen alpha-1(I) chain; alpha-1 type I collagen
UniProt Protein Name	Collagen alpha-1(I) chain
UniProt Gene Name	COL1A1
UniProt Entry Name	CO1A1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/cat-cattle-elisa-kits/col1a1-collagen-type-i-alpha-1/277836>