

Canine Collagen Type II Alpha 1 ELISA Kit | COL2a1 elisa kit

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CATALOG #
AAA88568

REACTIVITY
Canine

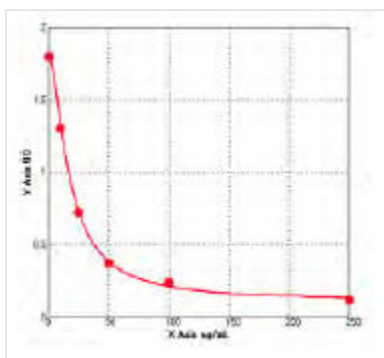
PRODUCT SYNONYMS

Collagen Type II Alpha 1; Canine Collagen Type II Alpha 1 ELISA Kit; COL2a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of CoL2alpha1. No significant cross-reactivity or interference between CoL2alpha1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CoL2alpha1 and all the analogues, therefore, cross reaction may still exist in some cases.
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 COL2a1 elisa kit	Intended Uses: This CoL2alpha1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine CoL2alpha1. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: CoL2alpha1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CoL2alpha1 antibody and an CoL2alpha1-HRP conjugate. The assay sample and buffer are incubated together with CoL2alpha1-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 CoL2alpha1 concentration since CoL2alpha1 from samples and CoL2alpha1-HRP conjugate compete for the anti-CoL2alpha1 antibody binding site. Since the number of sites is limited, as more sites are occupied by CoL2alpha1 from the sample, fewer sites are left to bind CoL2alpha1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CoL2alpha1 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for COL2a1 elisa kit	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	30041
NCBI GeneID	1280
UniProt Accession #	P02458 ; Q12985 ; Q14009 ; Q14044 ; Q14045 ; Q14046 ; Q14047 ; Q14056 ; Q14058 ; Q16672 ; Q1JQ82 ; A6NGA0
Molecular Weight	29,781 Da
NCBI Official Full Name	COL2A1, partial
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/col2a1-canine-elisa-kits/collagen-type-ii-alpha-1/88568>