

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

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CATALOG #
AAA88423

REACTIVITY
Porcine

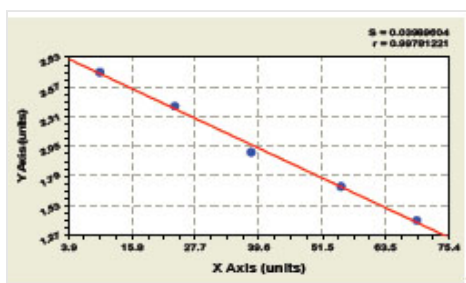
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Porcine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	1.0 ng/mL.
Intended Uses	This CoL2alpha1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Porcine CoL2alpha1. 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
COL2a1 elisa kit

Principle of the assay: CoL2alpha1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal 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.

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Online datasheet: <https://www.aaabiotech.com/col2a1-porcine-elisa-kits/collagen-type-ii-alpha-1/88423>