Procollagen II (PCII) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Procollagen II (PCII), ELISA Kit
Full Product Name	Goat Procollagen II ELISA Kit
Product Gene Name	PCII elisa kit
Species Reactivity	Goat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	134,570 Da
3D Structure	ModBase 3D Structure for P05539
Related Product Information for PCII elisa kit	MBS077586 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Procollagen II (PCII) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PCII. The ELISA analytical biochemical technique of the MBS077586 kit is based on PCII antibody-PCII antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PCII antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PCII. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of PCII elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCII. It may not necessarily be applicable to this product.

NCBI GI #	149032179
NCBI GeneID	25412
NCBI Accession #	EDL87091.1
UniProt Primary Accession #	P05539
UniProt Secondary Accession #	Q63123; Q63565; Q78DY3
UniProt Related Accession #	P05539
NCBI Official Full Name	procollagen, type II, alpha 1, isoform CRA_c
NCBI Official Synonym Full Names	collagen, type II, alpha 1
NCBI Official Symbol	Col2a1
NCBI Official Synonym Symbols	CG2A1A; COLLII
UniProt Protein Name	Collagen alpha-1(II) chain
UniProt Synonym Protein Names	Alpha-1 type II collagen
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	Col2a1
UniProt Entry Name	CO2A1_RAT

NCBI Protein Information	collagen alpha-1(II) chain; collagen alpha-1(II) chain; Procollagen II alpha 1; alpha-1 type II collagen; procollagen, type II, alpha 1; collagen type II (Col2A1) gene, enhancer region
NCBI Summary for PCII	structural component of the cartilage extracellular matrix [RGD, Feb 2006]
UniProt Comments for PCII	Function: Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces. Subunit structure: Homotrimers of alpha 1(II) chains. Subcellular location: Secreted › extracellular space › extracellular matrix By similarity. Tissue specificity: Expressed in chondrocytes. Ref.5 Domain: The C-terminal propeptide, also known as COLFI domain, have crucial roles in tissue growth and repair by controlling both the intracellular assembly of procollagen molecules and the extracellular assembly of collagen fibrils. It binds a calcium ion which is essential for its function By similarity. Post-translational modification: Prolines at the third position of the tripeptide repeating unit (G-X-P) are hydroxylated in some or all of the chains. Probably 3-hydroxylated on Pro-602, Pro-839, Pro-1076, Pro-1133, Pro-1139 and Pro-1145 by LEPREL1. Sequence similarities: Belongs to the fibrillar collagen family.Contains 1 fibrillar collagen NC1 domain.
Research Articles on PCII	**1.** Screening of the Col2a1 gene, and enhancer domain, for the sequence encoded regulation of its expression.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/pcii-goat-elisa-kits/procollagen-ii/77586