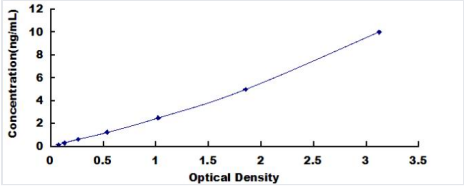
Collagen Type XIV (COL14) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Collagen Type XIV (COL14), ELISA Kit
Full Product Name	Human Collagen Type XIV (COL14) ELISA Kit
Product Gene Name	COL14 elisa kit
Product Synonym Names	COL14A1; COL14-A1; UND; undulin; Collagen Type XIV Alpha 1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.067ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	183,154 Da
OMIM	120324
3D Structure	ModBase 3D Structure for Q05707
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for COL14 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to COL14. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to COL14. 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 COL14, 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 COL14 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of COL14 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.
Searchable Terms for COL14 purchase	MBS458459 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Collagen Type XIV (COL14) 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 COL14. The ELISA analytical biochemical technique of the MBS458459 kit is based on COL14 antibody-COL14 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect COL14 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, COL14. 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(%).



Typical Testing Data/Standard Curve (for reference only) of COL14 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COL14. It may not necessarily be applicable to this product.

NCBI GI #	55743096
NCBI GeneID	7373
NCBI Accession #	NP_066933.1
UniProt Primary Accession #	Q05707
UniProt Secondary Accession #	O00260; O00261; O00262; Q05708; Q5XJ18; Q96C67; Q9UDF6; B2RU07
UniProt Related Accession #	Q05707
GenBank Nucleotide #	NM_021110.3
NCBI Official Full Name	collagen alpha-1(XIV) chain
NCBI Official Synonym Full Names	collagen type XIV alpha 1 chain
NCBI Official Symbol	COL14A1
NCBI Official Synonym Symbols	UND
UniProt Protein Name	Collagen alpha-1(XIV) chain
UniProt Synonym Protein Names	Undulin
Protein Family	Zinc finger protein CONSTANS
UniProt Gene Name	COL14A1
NCBI Protein Information	collagen alpha-1(XIV) chain
NCBI Summary for COL14	This gene encodes the alpha chain of type XIV collagen, a member of the FACIT (fibril-associated collagens with interrupted triple helices) collagen family. Type XIV collagen interacts with the fibril surface and is involved in the regulation of fibrillogenesis. [provided by RefSeq, Jan 2013]
UniProt Comments for COL14	Plays an adhesive role by integrating collagen bundles. It is probably associated with the surface of interstitial collagen fibrils via COL1. The COL2 domain may then serve as a rigid arm which sticks out from the fibril and protrudes the large N-terminal globular domain into the extracellular space, where it might interact with other matrix molecules or cell surface receptors ().
Research Articles on COL14	**1.** the intima+media of IPAH vessels, collagens (COL4A5, COL14A1, and COL18A1), matrix metalloproteinase (MMP) 19, and a disintegrin and metalloprotease (ADAM) 33 were higher expressed, whereas MMP10, ADAM17, TIMP1, and TIMP3 were less abundant.
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