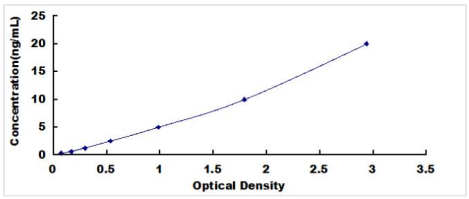
Collagen Type XV (COL15) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Collagen Type XV (COL15), ELISA Kit
Full Product Name	Human Collagen Type XV (COL15) ELISA Kit
Product Gene Name	COL15 elisa kit
Product Synonym Names	COL15A1; COL15-A1; Collagen Alpha-1(XV)chain; Restin; Endostatin-XV; Related to endostatin
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.121ng/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	141,720 Da
OMIM	120325
3D Structure	ModBase 3D Structure for P39059
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 COL15 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to COL15. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to COL15. 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 COL15, 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 COL15 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of COL15 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 COL15 purchase	MBS458460 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Collagen Type XV (COL15) 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 COL15. The ELISA analytical biochemical technique of the MBS458460 kit is based on COL15 antibody-COL15 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect COL15 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, COL15. 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 COL15 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COL15. It may not necessarily be applicable to this product.

NCBI GI #	116008152
NCBI GeneID	1306
NCBI Accession #	NP_001846.3
UniProt Primary Accession #	P39059
UniProt Secondary Accession #	Q5T6J4; Q9UDC5; Q9Y4W4
UniProt Related Accession #	P39059
GenBank Nucleotide #	NM_001855.4
NCBI Official Full Name	collagen alpha-1(XV) chain
NCBI Official Synonym Full Names	collagen type XV alpha 1 chain
NCBI Official Symbol	COL15A1
UniProt Protein Name	Collagen alpha-1(XV) chain
UniProt Synonym Protein Names	RestinAlternative name(s):Endostatin-XV; Related to endostatin; Restin-I
Protein Family	Zinc finger protein CONSTANS
UniProt Gene Name	COL15A1
NCBI Protein Information	collagen alpha-1(XV) chain
NCBI Summary for COL15	This gene encodes the alpha chain of type XV collagen, a member of the FACIT collagen family (fibril-associated collagens with interrupted helices). Type XV collagen has a wide tissue distribution but the strongest expression is localized to basement membrane zones so it may function to adhere basement membranes to underlying connective tissue stroma. The proteolytically produced C-terminal fragment of type XV collagen is restin, a potentially antiangiogenic protein that is closely related to endostatin. Mouse studies have shown that collagen XV deficiency is associated with muscle and microvessel deterioration. [provided by RefSeq, May 2013]
UniProt Comments for COL15	Structural protein that stabilizes microvessels and muscle cells, both in heart and in skeletal muscle.
Research Articles on COL15	**1.** COL15A1 mRNA was up-regulated in hepatocellular cancer (HCC) and collagen XV was expressed along the sinusoid-like endothelium of HCC but not in non-tumoral regions, which implies that collagen XV contributes to the capillarization of HCC.
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.
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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.

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