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 ELISA Kit
Product Gene Name	COL15 elisa kit
Species Reactivity	Human
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	141,720 Da
OMIM	120325
3D Structure	ModBase 3D Structure for P39059
Related Product Information for COL15 elisa kit	MBS088360 is a ready-to-use microwell, strip 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 MBS088360 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(%).
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.

ADDITIONAL DETAILS

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

NCBI GI #	119579308
NCBI GeneID	1306
NCBI Accession #	EAW58904.1
UniProt Primary Accession #	P39059
UniProt Secondary Accession #	Q5T6J4; Q9UDC5; Q9Y4W4
UniProt Related Accession #	P39059
NCBI Official Full Name	collagen, type XV, alpha 1, isoform CRA_f
NCBI Official Synonym Full Names	collagen, type XV, alpha 1
NCBI Official Symbol	COL15A1
UniProt Protein Name	Collagen alpha-1(XV) chain
UniProt Synonym Protein Names	Endostatin-XV; Related to endostatin; Restin-IRestin-2; Alternative name(s):; Restin-IIRestin-3; Alternative name(s):; Restin-IIIRestin-4; Alternative name(s):; Restin-IV
Protein Family	Zinc finger protein CONSTANS
UniProt Gene Name	COL15A1

UniProt Entry Name	COFA1_HUMAN
NCBI Protein Information	collagen alpha-1(XV) chain; collagen alpha-1(XV) chain; restin; endostatin-XV; collagen type XV proteoglycan; collagen XV, alpha-1 polypeptide
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	COL15A1: Structural protein that stabilizes microvessels and muscle cells, both in heart and in skeletal muscle. Belongs to the multiplexin collagen family. Protein type: Extracellular matrix; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 9q21-q22 Cellular Component: extracellular matrix; extracellular space; endoplasmic reticulum lumen; collagen type XV; integral to membrane; extracellular region Molecular Function: extracellular matrix structural constituent Biological Process: extracellular matrix disassembly; collagen catabolic process; extracellular matrix organization and biogenesis; angiogenesis; signal transduction; cell adhesion; cell differentiation
Research Articles on COL15	**1.** COL15A1, provide evidence for concomitant epigenetic regulation and genetic susceptibility, and define a class of causal targets that sit at the intersection of genetic and epigenetic predisposition in the etiology of complex disease.
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