Collagen Type VIII Alpha 1 (COL8A1) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Collagen Type VIII Alpha 1 (COL8A1), ELISA Kit
Full Product Name	Goat Collagen Type VIII Alpha 1 ELISA Kit
Product Gene Name	COL8A1 elisa kit
Species Reactivity	Goat
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	73,364 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (99357440..99515577). Location: 3q12.3
OMIM	120251
3D Structure	ModBase 3D Structure for P27658
Related Product Information for COL8A1 elisa kit	MBS017637 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Collagen Type VIII Alpha 1 (COL8A1) 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 COL8A1. The ELISA analytical biochemical technique of the MBS017637 kit is based on COL8A1 antibody-COL8A1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect COL8A1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, COL8A1. 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 COL8A1 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 COL8A1. It may not necessarily be applicable to this product.

NCBI GI #	32895368
NCBI GeneID	1295
NCBI Accession #	NP_065084.2
UniProt Primary Accession #	P27658
UniProt Secondary Accession #	Q53XI6; Q96D07; D3DN42
UniProt Related Accession #	P27658
GenBank Nucleotide #	NM_020351.3
NCBI Official Full Name	collagen alpha-1(VIII) chain
NCBI Official Synonym Full Names	collagen, type VIII, alpha 1
NCBI Official Symbol	COL8A1
NCBI Official Synonym Symbols	C3orf7
UniProt Protein Name	Collagen alpha-1(VIII) chain

UniProt Synonym Protein Names	Endothelial collagen
Protein Family	Collagen
UniProt Gene Name	COL8A1
UniProt Synonym Gene Names	C3orf7
UniProt Entry Name	CO8A1_HUMAN
NCBI Protein Information	collagen alpha-1(VIII) chain; collagen alpha-1(VIII) chain; endothelial collagen; collagen VIII, alpha-1 polypeptide; cell proliferation-inducing protein 41; smooth muscle cell-expressed and macrophage conditioned medium-induced protein smag-64
NCBI Summary for COL8A1	This gene encodes one of the two alpha chains of type VIII collagen. The gene product is a short chain collagen and a major component of the basement membrane of the corneal endothelium. The type VIII collagen fibril can be either a homo- or a heterotrimer. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Dec 2011]
UniProt Comments for COL8A1	COL8A1: Macromolecular component of the subendothelium. Major component of the Descemet's membrane (basement membrane) of corneal endothelial cells. Also component of the endothelia of blood vessels. Necessary for migration and proliferation of vascular smooth muscle cells and thus, has a potential role in the maintenance of vessel wall integrity and structure, in particular in atherogenesis. Protein type: Secreted, signal peptide; Secreted; Extracellular matrix Chromosomal Location of Human Ortholog: 3q12.3 Cellular Component: extracellular matrix; intracellular membrane-bound organelle; endoplasmic reticulum lumen; extracellular region; collagen type VIII Biological Process: collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; epithelial cell proliferation; camera-type eye morphogenesis; angiogenesis; cell adhesion
Research Articles on COL8A1	**1.** The purpose of this study is to evaluate COL8A1 and COL8A2 as candidate genes for thin central corneal thickness in human primary open angle glaucoma patients.
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