COL12A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COL12A1, Polyclonal Antibody
Full Product Name	COL12A1 Antibody
Product Gene Name	anti-COL12A1 antibody
Product Synonym Names	COL12A1; COL12A1L; Collagen alpha-1(XII) chain
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	333,147 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (75794042..75915623, complement). Location: 6q12-q13
OMIM	120320
3D Structure	ModBase 3D Structure for Q99715
Immunogen	Synthesized peptide derived from the Internal region of human COL12A1.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-COL12A1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-COL12A1 antibody	Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-COL12A1 antibody	IHC: 1:100-1:300 IF: 1:200-1:1000 ELISA: 1:10000
Related Product Information for anti-COL12A1 antibody	MBS7118978 is an antibody targeting COL12A1. Also known as COL12A1 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-COL12A1 antibody 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 COL12A1. It may not necessarily be applicable to this product.

NCBI GI #	93141047

NCBI GeneID	1303
NCBI Accession #	NP_004361.3
UniProt Primary Accession #	Q99715
UniProt Secondary Accession #	O43853; Q15955; Q5VYK1; Q5VYK2; Q71UR3; Q99716
UniProt Related Accession #	Q99715
GenBank Nucleotide #	NM_004370.5
NCBI Official Full Name	collagen alpha-1(XII) chain long isoform
NCBI Official Synonym Full Names	collagen, type XII, alpha 1
NCBI Official Symbol	COL12A1
NCBI Official Synonym Symbols	COL12A1L; BA209D8.1; DJ234P15.1
UniProt Protein Name	Collagen alpha-1(XII) chain
Protein Family	Collagen
UniProt Gene Name	COL12A1
UniProt Synonym Gene Names	COL12A1L
UniProt Entry Name	COCA1_HUMAN
NCBI Protein Information	collagen alpha-1(XII) chain; collagen alpha-1(XII) chain; collagen type XII proteoglycan
NCBI Summary for COL12A1	This gene encodes the alpha chain of type XII collagen, a member of the FACIT (fibril-associated collagens with interrupted triple helices) collagen family. Type XII collagen is a homotrimer found in association with type I collagen, an association that is thought to modify the interactions between collagen I fibrils and the surrounding matrix. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for COL12A1	COL12A1: Type XII collagen interacts with type I collagen- containing fibrils, the COL1 domain could be associated with the surface of the fibrils, and the COL2 and NC3 domains may be localized in the perifibrillar matrix. Belongs to the fibril-associated collagens with interrupted helices (FACIT) family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Extracellular matrix; Secreted Chromosomal Location of Human Ortholog: 6q12-q13 Cellular Component: collagen type XII; extracellular matrix; extracellular space; endoplasmic reticulum lumen; extracellular region; vesicle Molecular Function: extracellular matrix structural constituent conferring tensile strength Biological Process: collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; collagen fibril organization; cell adhesion; skeletal development Disease: Ullrich Congenital Muscular Dystrophy 2; Bethlem Myopathy 2
Research Articles on COL12A1	**1.** Type XII collagen is overexpressed in permanent human and mouse corneal scars and could represent a new target to treat corneal scarring.
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