

Anti-COL12A1 antibody



Description	Rabbit polyclonal to COL12A1.
Model	STJ92375
Host	Rabbit
Reactivity	Human
Applications	ELISA, IF, IHC
Immunogen	Synthesized peptide derived from human COL12A1
Immunogen Region	1450-1530 aa, Internal
Gene ID	1303
Gene Symbol	COL12A1
Dilution range	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000
Specificity	COL12A1 Polyclonal Antibody detects endogenous levels of COL12A1 protein.
Tissue Specificity	Found in collagen I-containing tissues: both isoform 1 and isoform 2 appear in amnion, chorion, skeletal muscle, small intestine, and in cell culture of dermal fibroblasts, keratinocytes and endothelial cells. Only isoform 2 is found in lung, placenta, kidney and a squamous cell carcinoma cell line. Isoform 1 is also present in the corneal epithelial Bowman's membrane (BM) and the interfibrillar matrix of the corneal stroma, but it is not detected in the limbal BM.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Note	For Research Use Only (RUO).
Protein Name	Collagen alpha-1 XII chain
Molecular Weight	333.147 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:21880MIM:120320
Alternative Names	Collagen alpha-1 XII chain
Function	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.
Cellular Localization	Secreted, extracellular space, extracellular matrix
Post-translational Modifications	The triple-helical tail is stabilized by disulfide bonds at each end. Hydroxylation on proline residues within the sequence motif, GXPG, is most likely to be 4-hydroxy as this fits the requirement for 4-hydroxylation in vertebrates. Isoform 1 O-glycosylation; glycosaminoglycan of chondroitin-sulfate type.