

**Anti-Human COL12A1 Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA04667**

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3th Edition

**Description:**COL12A1 (Collagen Type XII Alpha 1 Chain) is a Protein Coding gene. Diseases associated with COL12A1 include Bethlem Myopathy 2 and Ullrich Congenital Muscular Dystrophy 2. Among its related pathways are Collagen chain trimerization and Phospholipase-C Pathway. GO annotations related to this gene include extracellular matrix structural constituent conferring tensile strength. An important paralog of this gene is COL14A1. 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.

**Antigen:**Synthetic peptide from human protein

**Form:**

**How to use:**1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:**PBS (pH7.4) containing 1% BSA

**Application:**This antibody can be used for western blotting in concentration of 1?5?g/ml.

**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.