

Product datasheet for **AM10159PU-N**

Collagen V (COL5A1) Mouse Monoclonal Antibody [Clone ID: 13F6]

Product data:

| | |
|------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 13F6 |
| Applications: | ELISA, IF, IHC, IP, WB |
| Recommended Dilution: | ELISA. Western Blot: 1/200-1/1000. Immunoprecipitation. Immunohistochemistry: 1/100-1/500. Immunocytochemistry: 1/100-1/500. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Purified recombinant N alpha 1 fragment : Human N alpha 1 (V). The epitope is located in the COL2-NC2 region. |
| Specificity: | Reacts with Human pro alpha 1(V) chain. |
| Formulation: | 0.1M Tris, 0.1M Glycine, 2% Sucrose State: Purified State: Lyophilized powder Preservative: None |
| Reconstitution Method: | Restore in distilled water |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography on Protein A |
| Conjugation: | Unconjugated |
| Storage: | Lyophilized powder stable for a minimum of 2 years at -20°C. Store reconstituted antibody at 2-8°C (in aliquots) at -20°C for longer. |
| Stability: | Shelf life: Six months from despatch. |
| Gene Name: | collagen type V alpha 1 |



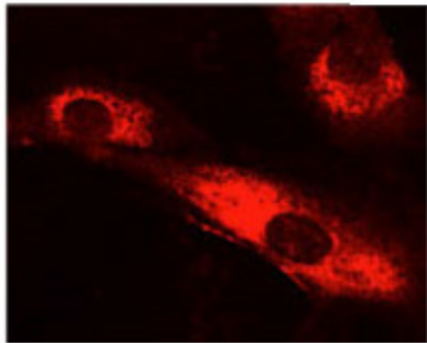
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Database Link: [Entrez Gene 1289 Human P20908](#)

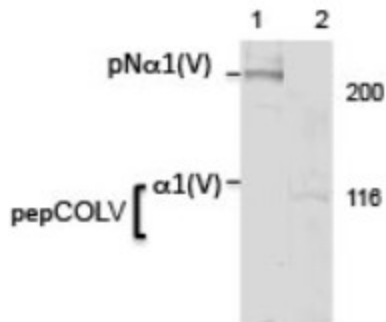
Background: Collagens are highly conserved throughout evolution and are characterized by an uninterrupted "Glycine-X-Y" triplet repeat that is a necessary part of the triple helical structure. Type V Collagen is a member of group I Collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V Collagen binds to DNA, heparan sulfate, Thrombospondin, Heparin, and Insulin. Collagen V is composed of several subunits as follows: trimers of two alpha 1(V) and one alpha 2(V) chains in most tissues and trimers of one alpha 1(V), one alpha 2(V), and one alpha 3(V) chains in placenta. Type V Collagen is closely related to type XI Collagen and it is possible that the Collagen chains of types V and XI constitute a single collagen type with tissue specific chain combinations. Mutations in this gene are associated with Ehlers Danlos syndrome, types I and II.

Synonyms: COL5A1

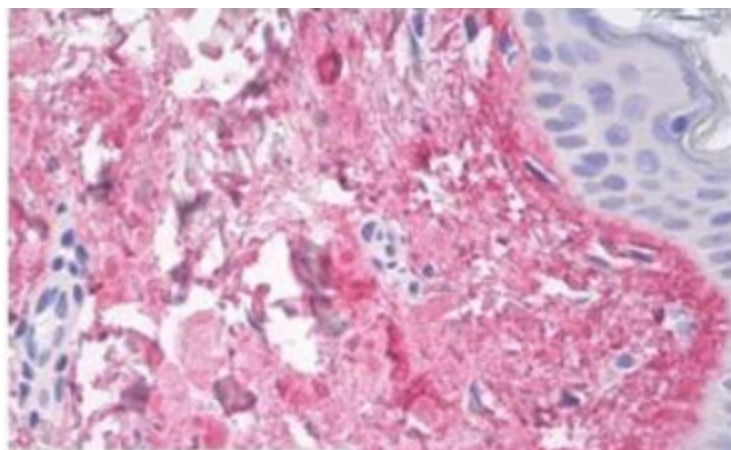
Product images:



Collagen V alpha-1 chain N-propeptide -NC2 domain antibody (13F6) (Cat.-No AM10159PU-N) Anti-COL5A1 antibody ICC staining of human derma fibroblasts (24h).



WB : Collagen V alpha-1 chain N-propeptide -NC2 domain antibody (13F6) Cat.-No AM10159PU-N staining of recombinant pNalpha1 homotrimer (1) and pepsinized collagen V heterotrimer (2).



Collagen V alpha-1 chain N-propeptide -NC2 domain antibody (13F6) Cat.-No AM10159PU-N staining of human formalin-fixed paraffin-embedded tissue skin after heat induced antigen retrieval.