

Product datasheet for **AM10160PU-N**

Collagen V (COL5A1) (collagen v alpha-1 chain) (alpha-1) Mouse Monoclonal Antibody [Clone ID: 6A7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6A7
Applications:	ELISA, EM, IF, IHC, WB
Recommended Dilution:	ELISA. Western Blot: 1/200-1/1000. Immunocytochemistry. Electron microscopy. Immunohistochemistry: 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 variable region.
Specificity:	Reacts with Human pro alpha 1(V) chain.
Formulation:	State: Purified State: Lyophilized powder Preservative: 0.01% Sodium Azide
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



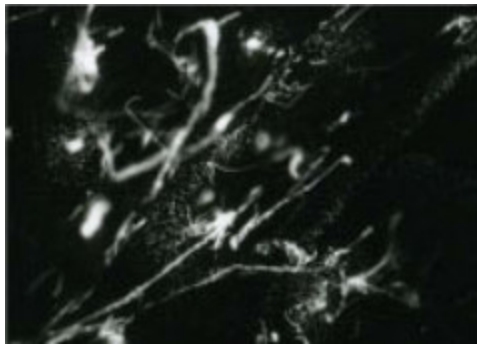
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Database Link: [Entrez Gene 1289 Human P20908](#)

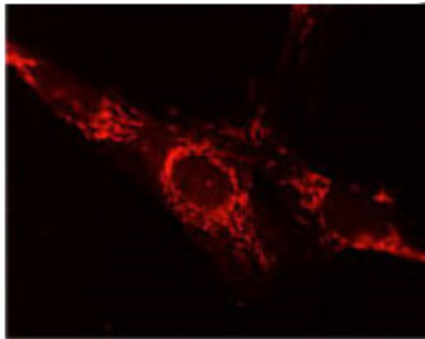
Background: Collagens are highly conserved throughout evolution and are characterized by an uninterrupted "Glycine-X-Y" triplet repeat that is a necessary part of the triple helical structure. Type V Collagen is a member of group I Collagen (fibrillar forming collagen). It is a minor connective tissue 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

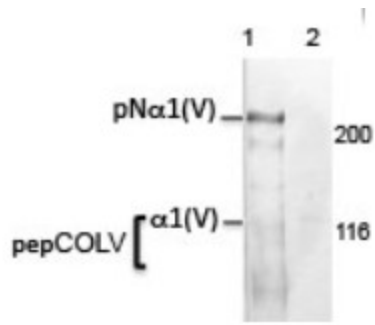
Product images:



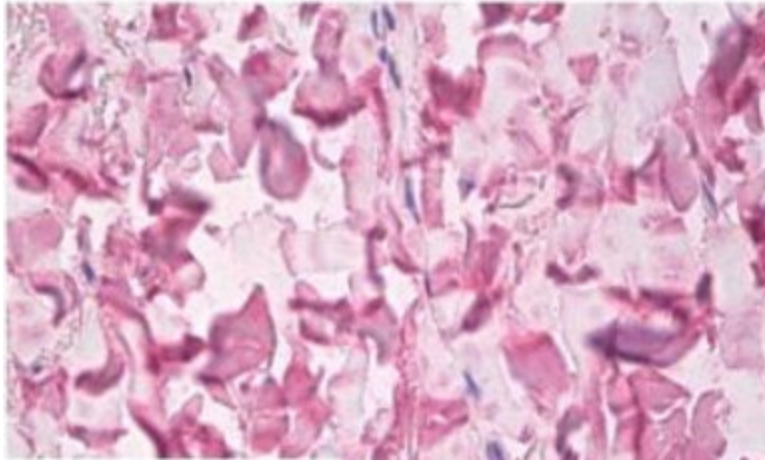
Collagen V alpha-1 chain N-propeptide -VR domain (COL5A1) antibody (6A7) Cat.-No AM10160PU-N EM staining of human dermal fibroblasts cells (5 days).



Collagen V alpha-1 chain N-propeptide -VR domain (COL5A1) antibody (6A7) Cat.-No AM10160PU-N ICC staining of human dermal fibroblasts cells (24h).



Collagen V alpha-1 chain N-propeptide -VR domain (COL5A1) antibody (6A7) (Cat.-No AM10160PU-N) staining of recombinant pNalpha1 homotrimer (1) and pepsinized collagen V heterotrimer (2).



Collagen V alpha-1 chain N-propeptide-VR domain (COL5A1) antibody (6A7) Cat.-No AM10160PU-N staining of human skin. Immunohistochemistry of formalin-fixed paraffin-embedded tissue after heat induced antigen retrieval.