

Product datasheet for **AM10158PU-N**

Collagen V (COL5A1) Mouse Monoclonal Antibody [Clone ID: 18G5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	18G5
Applications:	ELISA, IF, IHC, IP, WB
Recommend Dilution:	ELISA. Western Blot: 1/200-1/1000. Immunoprecipitation. Immunohistochemistry on Paraffin Sections: 15 µg/ml. Immunofluorescence.
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:	State: Purified State: Lyophilized powder Preservative: None
Reconstitution Method:	Restore in distilled water.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen type V alpha 1
Database Link:	Entrez Gene 1289 Human



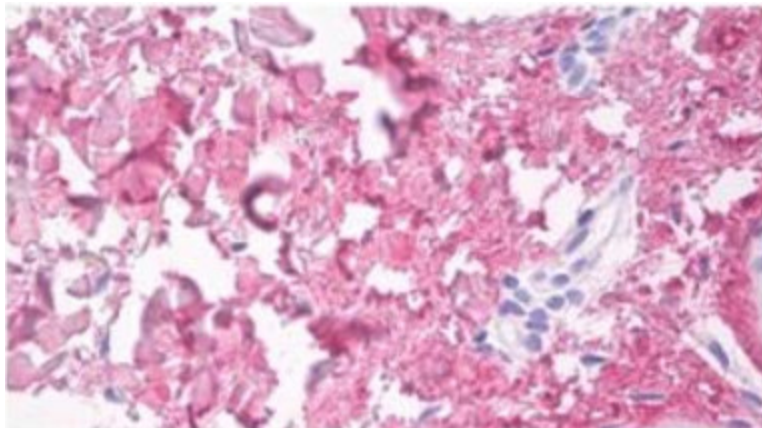
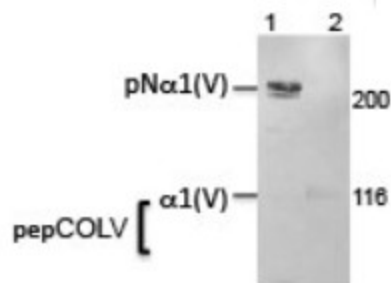
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Background:

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 (COL5A1) antibody (18G5) Cat.-No AM10158PU-N staining of human formalin-fixed paraffin-embedded skin after heat induced antigen retrieval.