

Product datasheet for **AM32236PU-N**

Collagen V (COL5A1) Mouse Monoclonal Antibody [Clone ID: MC5-HA]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MC5-HA
Applications:	ELISA, IHC, R
Recommended Dilution:	Radioimmunoassay. ELISA: 1/1000. Immunohistochemistry on frozen sections: 1/20.
Reactivity:	Human
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Specificity:	The antibody reacts with native Human as well as heat denatured Human Collagen type V in RIA, ELISA and immunoblot assays. The antibody does not react with Collagen types I, II, III and IV. Human plasma proteins do not interfere with binding to collagen.
Formulation:	State: Purified State: Lyophilized purified Ascites
Reconstitution Method:	Restore with 1 ml sterile water. Add preservative if preferred.
Purification:	PEG6000 precipitation + Sepharose 6B gel filtration
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen type V alpha 1
Database Link:	Entrez Gene 1289 Human P20908



[View online »](#)

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