

Datasheet for ABIN1106758
anti-Collagen Type V antibody



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1 Publication

Overview

Quantity:	1 mL
Target:	Collagen Type V (COL5)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunohistochemistry (Frozen Sections) (IHC (fro)), Enzyme Immunoassay (EIA), Radioimmunoassay (RIA)

Product Details

Clone:	MC5-HA
Isotype:	IgM
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.
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	PEG6000 precipitation + Sepharose 6B gel filtration

Target Details

Target:	Collagen Type V (COL5)
Alternative Name:	Collagen Type V (COL5 Products)
Background:	Collagens are highly conserved throughout evolution and are characterized by an uninterrupted

Target Details

"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

Gene ID: 1289

NCBI Accession: [NP_000084](#)

UniProt: [P20908](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Reconstitution: Restore with 1 mL sterile water. Add preservative if preferred.

Storage: 4 °C

Storage Comment: Store the antibody undiluted at 2-8 °C.

Publications

Product cited in: Rukosuev, Nanaev, Milovanov: "Participation of collagen types I, III, IV, V, and fibronectin in the formation of villi fibrosis in human term placenta." in: **Acta histochemica**, Vol. 89, Issue 1, pp. 11-6, (1991) ([PubMed](#)).