

Collagen V Alpha-1 Chain N-propeptide-NC2 domain Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 90008 (clone 18G5)
Format: 100ug, Protein A-purified,
lyophilized, 0.1M Tris, 0.1M glycine, 2%
sucrose, 1mg/ml.

BACKGROUND

Collagen V alpha-1 chain is a protein that in humans is encoded by the *COL5A1* gene. This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product 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.

SPECIFICATION SUMMARY

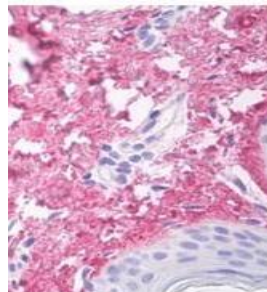
Antigen: Recombinant human collagen V alpha-1 chain N fragment.
Host species: Mouse.
Antibody Class: IgG1.
Preservative: None.

SPECIFICITY

This antibody reacts with human collagen V alpha-1 chain propeptide. The epitope recognized is in the COL2-NC2 region. Cross-reactivity with mouse is predicted based on sequence homology.

APPLICATIONS

Immunoblotting: use at 1-5ug/ml.
Immunohistochemistry: Formalin-fixed, paraffin-embedded tissue, heat-induced antigen retrieval. Use at 1-10ug/ml.



Staining of human skin with #90008. These are recommended concentrations. Enduser should determine optimal concentrations for their applications.

RECONSTITUTION

Reconstitute in distilled water.

STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C to -70°C. Reconstituted product should be stored in appropriate aliquots to avoid repeated freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.