



Product Information Sheet

Monoclonal Anti-Collagen, Type III (Sephacose Bead Conjugate)

Catalogue No. MA1029-S

Lot No. 08A12

Clone: Col-29

Ig type: mouse IgG1

Size: 200µl

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

Human collagen type III

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sephacose beads. It is useful for immunoprecipitation assays

BACKGROUND

Collagen type $\alpha_1(\text{I})$, also known as COL3A1, is assigned to chromosome 2. Ultrastructural analysis of tissues from mutant mice revealed that type III collagen is essential for normal collagen I fibrillogenesis in the cardiovascular system and other organs. Type III collagen is crucial for collagen I fibrillogenesis and for normal cardiovascular development

REFERENCE

- 1 Cutting, G. R.; McGinniss, M. J.; Kasch, I. M.; Tsipouras, P.; Antonarakis, S. E. : *Physical mapping by PFGE localizes the COL3A1 and COL5A2 genes to a 35 kb region on chromosome 2. (Abstract) Clin. Res.* 38: 266A, 1990.
- 2 Cutting, G. R.; McGinniss, M. J.; Kasch, L. M.; Tsipouras, P.; Antonarakis, S. E. : *Physical mapping by PFGE localizes the COL3A1 and COL5A2 genes to a 35 kb region on human chromosome 2. Genomics* 8: 407-410, 1990.
- 3 Emanuel, B. S.; Cannizzaro, L. A.; Seyer, J. M.; Myers, J. C. : *Human alpha-1(III) and alpha-2(V) procollagen genes are located on the long arm of chromosome 2. Proc. Nat. Acad. Sci.* 82: 3385-3389, 1985.
- 4 Liu, X.; Wu, H.; Byrne, M.; Krane, S.; Jaenisch, R. : *Type III collagen is crucial for collagen I fibrillogenesis and for normal cardiovascular development. Proc. Nat. Acad. Sci.* 94: 1852-1856, 1997.

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