



Product Information Sheet

Monoclonal Anti-Collagen, Type III

Catalogue No. MA1029

Lot No. 08A12

Clone: Col-29

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

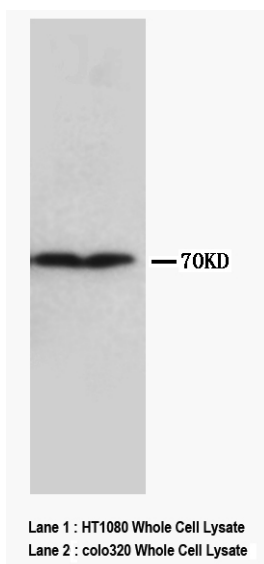
Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(F)



Immunogen

Human collagen type III

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 0.25-0.5µg/ml with the appropriate system to detect collagen type III in cells and tissues.

Immunohistochemistry(F)

At 0.5-1µg/ml to detect collagen type III in formalin/acetone fixed tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

Collagen type III, 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.