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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Procollagen Type III, human, bovine

nordicmubio.com/product/procollagen-type-iii-human-bovine

Catalogue number: **CO23311-0.1**

Product Type	Primary Antibodies
Units	0.1 ml
Host	Rabbit
Application	ELISA Immunofluorescence Immunohistochemistry (paraffin) Radioimmunoassay Western Blotting

Background

Collagen type III is synthesized as a homo-trimeric pro-collagen comprising three identical pro-alpha(III)-chains. It has been reported that procollagen type III is processed extracellularly at the ECM and can be found by immunostaining intracellular as well as extracellular. Collagens consist of a family of highly specialized glycoproteins of which at least 16 genetically distinct types are known to date. The basal unit of a collagen molecule consists of a triple-helical structure formed by 3 alpha-chains. Predominant amino acids are glycine, proline and hydroxyproline. Regularly also lysines and hydroxylysines occur, which are responsible for cross-linkage and glycosylation of the protein chains. Different composition of alpha-chains and different glycosylation contribute to the high variability of collagens in different tissues and organs. Human and bovine procollagen type III (PIIIP) 100%; human and bovine procollagen type and collagen type I <0.1% in RIA at 1:200 dilution..

Source

Immunogen: Procollagen type III deprived of the C-terminal PIIICP peptide

Product

affinity purified antibody lyophilized from phosphate buffered solution; no BSA and preservative added!

Purification Method: affinity purified antibody lyophilized from phosphate buffered solution; no BSA and preservative added!

Concentration: app. 1 mg/ml

Secondary Reagents: Anti-rabbit IgG-conjugates, e.g. anti-rabbit IgG:FITC (Art. No. FI-1000) or anti-rabbit IgG:DyLight488 (Art. No. DI-1488).

Specificity

Species Reactivity: Human, cattle (pig)

Applications

IHC(P), IFA, ELISA, RIA, IB/WB

Incubation Time: IHC(P) 60 min at RT or 2-8°C over night

Working Concentration: (purified, lyophilized) IFA ? 1:40, IHC(P) ? 1:500, ELISA 1:100 - 1:200 (OD ? 500), RIA >1:200

Pre-Treatment: After de-waxing the tissue slices they are treated with 0.2% hyaluronidase (app. 300 U/mg e.g. Art. No. HYA02-50) in TBS 15 min at 37°C. Thereafter non-specific binding is blocked by blocking serum or 3% BSA in TBS. For peroxidase systems blocking with 1% peroxide solution in TBS for 30 min at RT is recommended.

Positive Control: Human or bovine skin and liver

Storage

-20°C

Caution

*These antibodies are intended for in vitro research use only. They must not be used for clinical diagnostics and not for in vivo experiments in humans or animals.

References

1. Desmoulière A., Darby I., Monte Alto Costa A., Raccurt M., Tuchweber B., Sommer P., Gabbiani G. (1997) Extracellular Matrix Deposition, lysyl oxidase expression, and myofibroblastic differentiation during the initial stages of cholestatic fibrosis in the rat. *Lab. Invest.* 76, 765-778.
2. Gindre D., Peyrol S., Raccurt M., Sommer P., Loire. R., Grimaud J.A., Cordier J.F. (1995) Fibrosing vasculitis in Wegener's granulomatosis: ultrastructural and immunohistochemical analysis of the vascular lesions. *Virchows Arch.* 427, 385-393.
3. Trinchet J.C., Hartmann D.J., Pateron D., Munz-Gotheil C., Callard P., Ville G., Beaugrand M. (1992) Serum type I collagen and N-terminal peptide of type III procollagen in patients with alcoholic liver disease: relationship to liver histology. *Alcohol. Clin. Exp. Res.* 16, 342-346.

Protein Reference(s)

Database Name: UniProt

Accession number: P02461 (CO3A1_HUMAN)

Species Accession: Human