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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Collagen Type III, rat

nordicmubio.com/product/collagen-type-iii-rat-2

Catalogue number: **CO20341-0.1**

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

Background

Type III collagen is an $\alpha_1(\text{III})$ -trimer, which forms 67 nm cross-banded fibrils. Typically it can be observed in skin, cartilage and vitreous body. 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 α -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 α -chains and different glycosylation contribute to the high variability of collagens in different tissues and organs. Rat collagen type III 100%, rat collagen I <0.1%; rat collagen type V <10%; rat elastin <0.1% (solid phase RIA at 1:50 dilution).

Source

Immunogen: Purified collagen type III from rat skin

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: Rat, cross-reaction with mouse

Applications

IHC(P), IFA, ELISA, RIA

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

Working Concentration: (purified, lyophilized) IFA ? 1:80, IHC(P) ? 1:500, ELISA ? 1:200 (OD ? 500)

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: Rat skin or liver

Storage

-20°C

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.

References

1. Bouvier M., Couble M.L., Hartmann D.J., Magloire H. (1991) Isolation and characterization of rat alveolar bone cells. *Cell Mol. Biol.* 37, 509-517.»
2. Breen E., Falco V.M., Absher M., Cutroneo K.R. (1990) Subpopulations of rat lung fibroblasts with different amounts of type I and type III collagen mRNAs. *J. Biol. Chem.* 265, 6286-6290.
3. Vialle-Presles M.J., Hartmann D.J., Franc S., Herbage D. (1989) Immunohistochemical study of the biological fate of a subcutaneous bovine collagen implant in rat. *Histochemistry* 91, 177-184.
4. Al Adnani M.S. (1989) Differential immunohistochemical localization of cytokeratins and collagen types I and III in experimentally-induced cirrhosis. *J. Pathol.* 159, 151-158.

Protein Reference(s)

Database Name: UniProt

Accession number: P13941 (CO3A1_RAT)

Species Accession: Rat