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Produktinformation



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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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Collagen Type V, rat

nordicmubio.com/product/collagen-type-v-rat

Catalogue number: **CO20541**

Product Type	Primary Antibodies
Units	0.5 ml
Host	Rabbit
Application	ELISA Immunofluorescence Immunohistochemistry (paraffin) Radioimmunoassay Western Blotting

Background

Collagen type V is found as short fibrils in skin, bone and placenta. Often it is found in conjunction with other collagen types, especially type I and III. 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. Rat collagen type V 100%; rat collagen type I, II and III <0.1%; rat elastin <0.1% (RIA at 1:100 dilution).

Source

Immunogen: Purified collagen type V 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, mouse

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 ? 1:200 (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. Bairati A., Comazzi M., Gioria M., Hartmann D.J., Leone F., Rigo C. (1999) Immunohistochemical study of collagens of the extracellular matrix in cartilage of *Sepia officinalis*. Eur. J. Histochem. 43, 211-225.
2. 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.

Protein Reference(s)

Database Name: UniProt

Accession number: Q9JI03 (CO5A1_RAT)

Species Accession: Rat