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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Collagen Type I, mouse

nordicmubio.com/product/collagen-type-i-mouse-2

Catalogue number: **CO20151-0.1**

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

Background

Type I Collagen usually exists as a heterotrimer formed by alpha 1(I) and alpha 2(I) chains and is found in bone, cornea, skin and tendon. In foetal tissues also homotrimers of alpha-1(I) are found, but they are not constituents of normal adult tissues. 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. Mouse collagen type I 100%, mouse collagen type II and IV <0.1%; mouse collagen type III <1%; .

Source

Immunogen: Purified collagen type I from murine 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: Mouse; human, chicken and rat collagen type I < 0.1% (RIA at 1:200 dilution)

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 ? 1:80, 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: Mouse skin

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. Demarchez M., Hartmann D.J., Herbage D., Ville G., Prunieras M. (1987) Wound-healing of human-skin transplanted onto the nude-mouse. 2. an immunohistological and ultrastructural study of the epidermal basement-membrane zone reconstruction and connective-t 2. Duprez A., Guerret S., Vignaud J.M., Plenat F., Hartmann D.J., Grimaud J.A. (1987) The interstitial matrix of human carcinomas and sarcomas transplanted to the nude mouse : immunolocalization of some human and murine components. Cell. Mol. Biol. 33, 647-6 3. Andujar M.B., Hartmann D.J., Emonard H., Magloire H. (1988) Distribution and synthesis of type I and type III collagens in

developing mouse molar tooth root. Histochemistry 88, 131-140. 4. Plenat F., Vignaud J.M., Guerret-Stocker S., Hartmann D., Duprez K., Duprez A. (1992) Host-Donor interactions in healing of human split-thickness skin grafts onto nude mice: in situ hybridization, immunohistochemical, and histochemical studies. Transplant

Protein Reference(s)

Database Name: UniProt

Accession number: P11087