



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Collagen Type III, bovine

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[nordicmubio.com/product/collagen-type-iii-bovine-2](http://nordicmubio.com/product/collagen-type-iii-bovine-2)

Catalogue number: **CO20321-0.1**

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

### 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 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. Bovine collagen type III 100%, bovine collagen I <5%; bovine collagen type II <0.1%; (solid phase RIA at 1:50 dilution), sheep collagen type III app. 50% (IHC).

### Source

*Immunogen:* Purified collagen type III from bovine 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:* Cattle, cross-reacting with pig and sheep (IHC on skin and heart tissue)

## **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 (Envision) ; 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:* Bovine 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. Guerret S., Govignon E., Hartmann D.J., Ronfard V. (2003) Long term remodeling of a bilayered living human skin equivalent (Apligraf®) grafted onto nude mice: immunolocalization of human cells and characterization of extracellular matrix. Wound Rep. Reg. 2. Perris R., Löfberg J., Fällström C., Von Boxberg Y., Olsson L., Newgreen D.F. (1990) Structural and compositional divergencies in the extracellular matrix encountered by neural crest cells in the white mutant axolotl embryo. Development 109, 533-551.

## **Protein Reference(s)**

*Database Name:* UniProt

*Accession number:* P04258 (CO3A1\_BOVIN)

*Species Accession:* Bovine