



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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Collagen Type V, human

nordicmubio.com/product/collagen-type-v-human-2

Catalogue number: **CO20511-0.1**

Product Type	Primary Antibodies
Units	0.1 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. Human collagen type V 100%, human collagen type I, III and IV <0.1%, human fibronectin and laminin <0.1% (RIA at 1:100 dilution).

Source

Immunogen: Purified collagen type V from human placenta

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, strong cross- reactivity with cattle and pig, very low with rat and 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 ? 1:80, 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: Human placenta

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. Laurent R., Nallet A., Obert L., Nicod L., Gindraux F. (2014) Storage and qualification of viable intact human amniotic graft and technology transfer to a tissue bank. Cell Tissue Bank. Jun;15(2):267-75.
2. Black A.F., Bouez C., Perrier E., Schlotmann K., Chapuis F., Damour O. (2005) Optimization and characterization of an Engineered human skin equivalent. Tissue Engineering 11, 723-733.
3. Chanut-Delalande H., Fichard A., Bernocco S., Garrone R., Hulmes D.J.S., Ruggiero F. (2001) Control of heterotypic fibril formation by collagen V is determined by chain stoichiometry. J. Biol. Chem. 276, 24352-24359.
4. Kleman J.P., Hartmann D.J., Ramirez F., Van der Rest M.

(1992) The human rhabdomyosarcoma cell line A204 lays down a highly insoluble matrix composed mainly of 1 type-XI and 2 type-V collagen chains. Eur. J. Biochem. 210, 329-335.

Protein Reference(s)

Database Name: UniProt

Accession number: P20908 (CO5A1_HUMAN)

Species Accession: Human