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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 IV, bovine

nordicmubio.com/product/collagen-type-iv-bovine-2

Catalogue number: **CO20421-0.1**

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

Background

Type IV Collagen is a non-fibrillary network of different alpha-chains: alpha 1(IV) to alpha 6(IV). It is typically found in basal membranes of different organs (e.g. skin, lens, lung, kidney). 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 IV 100%; bovine collagen I, II, III, IX, XI and bovine fibronectin negative in ELISA at 1:100 dilution (< 0.1%).

Source

Immunogen: Purified collagen type IV from bovine lens capsule

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, other species < 0.1% cross-reaction

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 1:40-80, IHC(P) 1:500 - 1:1000, 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 lens capsule

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 DJ, 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 Repair Regen.* Jan-Feb;11(1):35-45.
2. Vitellaro-Zuccarello L., Garbelli R., Dal Pozzo Rossi V. (1992) Immunocytochemical localization of collagen types I, III, IV, and fibronectin in the human dermis. *Cell Tissue Res.* 268, 505-511.
3. Lannes-Vieira J., Dardenne M., Savino W. (1991) Extracellular matrix components of the mouse thymus microenvironment : Ontogenetic studies and modulation by glucocorticoid hormones. *J. Histochem. Cytochem.* 39, 1539-1546.

Protein Reference(s)

Database Name: UniProt

Accession number: Q7SIB2 (CO4A1_BOVIN)

Species Accession: Bovine