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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 IV, human

nordicmubio.com/product/collagen-type-iv-human-3

Catalogue number: **CO20411-0.1**

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

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 hydroxproline. 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 IV 100%; human collagen I, II <0.1%; human collagen III, V <1.0%; human fibronectin < 0.1%; mouse laminin < 0.1% (RIA at 1:10000 dilution).

Source

Immunogen: Purified collagen type IV 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

Applications

IHC(P), IFA, ELISA, RIA

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 - 1:1000

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 skin, placenta or lens capsule

Storage

-20°C

Caution

*These antibodies are intended for in vitro research use only. They must not be used for clinical diagnostics and not for in vivo experiments in humans or animals.

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. Heidet L., Cai Y., Guicharnaud L., Antignac C., Gubler M.C. (2000) Glomerular expression of type IV collagen chains in normal and X-linked alport syndrome kidneys. Am. J. Pathol 156, 1901-1910. 3. Castera L., Hartmann D.J., Chapel F., Guettier C., Mal F., Lons T., Richardet J.P., Grimbert S., Morassi O., Beaugrand M., Trinchet J.C. (2000) Serum laminin and type IV collagen are accurate markers of histologically severe alcoholic hepatitis in patient 4. Julliard A.K., Hartmann D.J. (1998) Spatiotemporal patterns of expression of extracellular matrix molecules in the developing and adult rat olfactory system. Neuroscience 84, 1135-1150.

Protein Reference(s)

Database Name: UniProt

Accession number: P02462 (CO4A1_HUMAN) ; P08572 (CO4A2_HUMAN); P2940

Species Accession: Human