

Publication

Basement membrane (type IV) collagen is a heteropolymer

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

ID 153713

Author(s) Trueb, B.; Grobli, B.; Spiess, Martin; Odermatt, B. F.; Winterhalter, K. H.

Author(s) at UniBasel [Spiess, Martin](#) ;

Year 1982

Title Basement membrane (type IV) collagen is a heteropolymer

Journal Journal of Biological Chemistry

Volume 257

Number 9

Pages / Article-Number 5239-45

Type IV collagen was isolated in high yield from bovine kidney cortex. The protein revealed $M_r = 380,000$ and contained, in a 2:1 ratio, two different disulfide-linked polypeptide chains, C-1 and D-1 ($M_r = 125,000$). Carboxymethyl-cellulose chromatography before and after reduction proved that the two polypeptide chains are arranged in a single triple helical molecule with the chain composition (C-1)₂(D-1). The disulfide bridges appear to be located 180 amino acid residues from the NH₂ terminus of the chains.

Publisher American Society for Biochemistry and Molecular Biology

ISSN/ISBN 0021-9258 ; 1083-351X

URL <http://www.jbc.org/content/257/9/5239.full.pdf>

edoc-URL <http://edoc.unibas.ch/45488/>

Full Text on edoc No;

PubMed ID <http://www.ncbi.nlm.nih.gov/pubmed/6802849>

ISI-Number WOS:A1982NN57300090

Document type (ISI) Journal Article