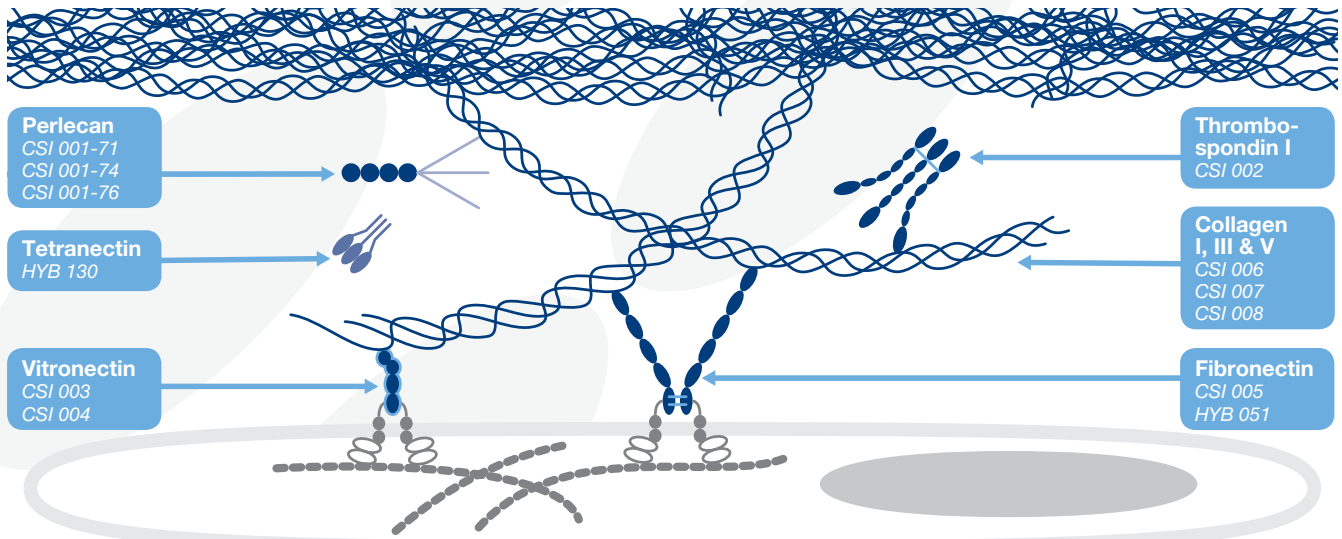


## Monoclonal antibodies for

# EXTRACELLULAR MATRIX PROTEINS



## REFERENCES IN WHICH ANTIBODYSHOP PRODUCTS HAVE BEEN USED

**Collagen type V** Cat. no. CSI 006-01 (1E2-E4/Col5), **type III** CSI 007-01 (1E7-D7/Col3) and **type I** CSI 008-01 (5D8-G9/Col1)

- Glattauer V, Werkmeister JA, Kirkpatrick A, Ramshaw JA (1997) Identification of the epitope for a monoclonal antibody that blocks platelet aggregation induced by type III collagen. *Biochem J* 323:45-49.
  - Jansen K, Meek MF, van der Werff JF, van Wachem PB, van Luyn MJ (2004) Long-term regeneration of the rat sciatic nerve through a biodegradable poly(DL-lactide-epsilon-caprolactone) nerve guide: tissue reactions with focus on collagen III/IV reformation. *J Biomed Mater Res A* 69:334-341.
  - Muller V, Ott R, Tannapfel A, Hohenberger W, Reck T (2001) Arterialization of the portal vein in liver transplantation: a new microsurgical model in the rat. *Transplantation* 71:977-981.
  - Pollock GA, McKelvie PA, McCarty DJ, White JF, Mallari PL, Taylor HR (2003) In vivo effects of fluoroquinolones on rabbit corneas. *Clin Experiment Ophthalmol* 31:517-521.
  - Stephens LJ, Werkmeister JA, Tebb TA, Ramshaw JAM (1991) Identification of type III collagen from kangaroo skin. *Das Leder* 42:41-44.
  - van Luyn MJ, Khouw IM, van Wachem PB, Blaauw EH, Werkmeister JA (1998) Modulation of the tissue reaction to biomaterials. II. The function of T cells in the inflammatory reaction to crosslinked collagen implanted in T-cell-deficient rats. *J Biomed Mater Res* 39:398-406.
  - Werkmeister JA, Ramshaw JA (1989) Monoclonal antibodies to collagens for immunofluorescent examination of human skin. *Acta Derm Venereol* 69:399-402.
  - Werkmeister JA, Ramshaw JAM (1991) Monoclonal antibodies to type V collagen as markers for new tissue deposition associated with biomaterial implants. *J Histochem Cytochem* 39:1215-1220.
  - Werkmeister JA, Ramshaw JAM (1988) The use of immunohistology in studies on connective tissue organisation in hides and skins. *Das Leder* 39:145-151.
  - Werkmeister JA, Peters DE, Ramshaw JAM (1989) Development of monoclonal antibodies to collagens for assessing host-implant interactions. *J Biomed Mater Res* 23:273-283.
  - Werkmeister JA, Edwards GA, White JF, Casagrande F, Hunt JA, Williams DF, Ramshaw JA (1999) In vivo evaluation of modified mandrel-grown vascular prostheses. *J Biomed Mater Res* 47:316-323.
  - Werkmeister JA, Ramshaw JAM (1991) Multiple antigenic determinants on type III collagen. *Biochem J* 274:895-898.
  - Werkmeister JA, Glattauer V, Tebb TA, Ramshaw JAM, Edwards GA, Roberts G (1991) Structural stability of long-term implants of a collagen-based vascular prosthesis. *J Long Term Eff Med Implants* 1:107-119.
  - Werkmeister JA, Ramshaw JAM, Ellender G (1990) Characterisation of monoclonal antibody against native human type I collagen. *Eur J Biochem* 187:4369-443.
- Fibronectin** Cat. no. CSI 005-17 (A17), CSI 005-22 (A22), CSI 005-32 (A32), CSI 005-35 (A35) and HYB 051-05
- Dalton BA, McFarland CD, Underwood PA, Steele JG (1995) Role of heparin binding domain of fibronectin in attachment and spreading of human bone derived cells. *J Cell Sci* 108:2083-2092.
  - Di Girolamo N, Underwood PA, McCluskey PJ, Wakefield D (1993) Functional activity of plasma fibronectin in patients with diabetes mellitus. *Diabetes* 42:1606-1613.
  - McFarland CD, Thomas CH, DeFilippis C, Steele JG, Healy KE (2000) Protein adsorption and cell attachment to patterned surfaces. *J Biomed Mater Res* 49:200-210.
  - Underwood PA, Dalton BA, Steele JG, Bennett FA, Strike P (1992) Anti-fibronectin antibodies that modify heparin binding and cell adhesion: evidence for a new cell binding site in the heparin binding region. *J Cell Sci* 102:833-845.
  - Underwood PA, Steele JG, Dalton BA (1993) Effects of polystyrene surface chemistry on biological activity of solid phase fibronectin and vitronectin, analysed with monoclonal antibodies. *J Cell Sci* 104:793-803.
  - Underwood PA, Whitelock JM, Bean PA, Steele JG (2002) Effects of base material, plasma proteins and FGF2 on endothelial cell adhesion and growth. *J Biomater Sci Polym Ed* 13:845-862.
  - Underwood PA, Steele JG, Dalton BA, Bennett FA (1990) Solid phase monoclonal antibodies. A novel method of directing the function of biologically active molecules by presenting a specific orientation. *J Immunol Methods* 127:91-102.
  - Underwood PA, Bean PA, Mitchell SM, Whitelock JM (2001) Specific affinity depletion of cell adhesion molecules and growth factors from serum. *J Immunol Methods* 247:217-224.
  - Whitelock JM, Graham LD, Melrose J, Murdoch AD, Iozzo R, Underwood PA (1999) Human perlecan immunopurified from different endothelial cell sources has different adhesive properties for vascular cells. *Matrix Biol* 18:163-178.

- Xie RZ, Evans MD, Bojarski B, Hughes TC, Chan GY, Nguyen X, Wilkie JS, McLean KM, Vannas A, Sweeney DF (2006) Two-year preclinical testing of perfluoropolyether polymer as a corneal inlay. *Invest Ophthalmol Vis Sci* 47:574-581.
- Perlecan (bovine)** Cat. no. CSI 001-71 (A71), CSI 001-74 (A74) and CSI 001-76 (A76)
- Evans MD, Steele JG (1998) Polymer surface chemistry and a novel attachment mechanism in corneal epithelial cells. *J Biomed Mater Res* 40:621-630.
  - Johnson PR, Black JL, Carlin S, Ge Q, Underwood PA (2000) The production of extracellular matrix proteins by human passively sensitized airway smooth-muscle cells in culture: the effect of beclomethasone. *Am J Respir Crit Care Med* 162:2145-2151.
  - Knox S, Merry, Stringer S, Melrose J, Whitelock J (2002) Not all perlecan are created equal: interactions with fibroblast growth factor (FGF) 2 and FGF receptors. *J Biol Chem* 277:14657-14665.
  - Knox S, Melrose J, Whitelock J (2001) Electrophoretic, biosensor, and bioactivity analyses of perlecan of different cellular origins. *Proteomics* 1:1534-1541.
  - McArthur ME, Irving-Rodgers HF, Byers S, Rodgers RJ (2000) Identification and immunolocalization of decorin, versican, perlecan, nidogen, and chondroitin sulfate proteoglycans in bovine small-antral ovarian follicles. *Biol Reprod* 63:913-924.
  - Melrose J, Smith S, Cake M, Read R, Whitelock J (2005) Comparative spatial and temporal localisation of perlecan, aggrecan and type I, II and IV collagen in the ovine meniscus: an ageing study. *Histochem Cell Biol* 124: 225-235.
  - Melrose J, Smith S, Cake M, Read R, Whitelock J (2005) Perlecan displays variable spatial and temporal immunolocalisation patterns in the articular and growth plate cartilages of the ovine stifle joint. *Histochem Cell Biol* 123:561-571.
  - Melrose J, Smith S, Whitelock J (2004) Perlecan immunolocalizes to perichondrial vessels and canals in human fetal cartilaginous primordia in early vascular and matrix remodeling events associated with diarthrodial joint development. *J Histochem Cytochem* 52:1405-1413.
  - Melrose J, Whitelock J, Xu Q, Ghosh P (1998) Pathogenesis of abdominal aortic aneurysms: possible role of differential production of proteoglycans by smooth muscle cells. *J Vasc Surg* 28:676-686.
  - Melrose J, Smith S, Knox S, Whitelock J (2002) Perlecan, the multidomain HS-proteoglycan of basement membranes, is a prominent pericellular component of ovine hypertrophic vertebral growth plate and cartilaginous endplate chondrocytes. *Histochem Cell Biol* 118:269-280.
  - Mongiat M, Taylor K, Otto J, Aho S, Uitto J, Whitelock JM, Iozzo RV (2000) The protein core of the proteoglycan perlecan binds specifically to fibroblast growth factor-7. *J Biol Chem* 275:7095-7100.
  - Sharma B, Handler M, Eichstetter I, Whitelock JM, Nugent MA, Iozzo RV (1998) Antisense targeting of perlecan blocks tumor growth and angiogenesis in vivo. *J Clin Invest* 102:1599-1608.
  - Underwood PA, Bean PA, Cubeddu L (2001) Human endothelial cells grow poorly on vitronectin: role of PAI-1. *J Cell Biochem* 82:98-109.
  - West L, Govindraj P, Koob TJ, Hassell JR (2006) Changes in perlecan during chondrocyte differentiation in the fetal bovine rib growth plate. *J Orthop Res* 24:1317-1326.
  - Whitelock JM, Murdoch AD, Iozzo RV, Underwood PA (1996) The degradation of human endothelial cell-derived perlecan, and release of bound bFGF by stromelysin, plasmin and heparanases. *J Biol Chem* 271:10079-10086.
  - Whitelock JM, Graham LD, Melrose J, Murdoch AD, Iozzo R, Underwood PA (1999) Human perlecan immunopurified from different endothelial cell sources has different adhesive properties for vascular cells. *Matrix Biol* 18:163-178.
- Tetranectin (human)** Cat. no. HYB 130-11, HYB 130-13 and HYB 130-14
- Hittel DS, Kraus WE, Hoffman EP (2003) Skeletal muscle dictates the fibrinolytic state after exercise training in overweight men with characteristics of metabolic syndrome. *J Physiol* 548:401-410.
- Hogdall CK, Christiansen M, Christensen L, Yazova AK, Koch C, Clemmensen I, Norgaard-Pedersen B (1997) Monoclonal antibodies against human tetranectin, epitope characterization and use in immunohistochemistry. *Clin Chim Acta* 258:159-177.
  - Hogdall CK (1998) Human tetranectin: methodological and clinical studies. *APMIS Suppl* 86:1-31.
  - Thougard AV, Hogdall CK, Kjaer SK, Blaakaer J, Jaliashvili I, Christiansen M (1998) Determination of serum tetranectin: technical and clinical evaluation of three sandwich immunoassays. *Clin Chim Acta* 276:19-34.
  - Thougard AV, Jaliashvili I, Christiansen M (2001) Tetranectin-like protein in vertebrate serum: a comparative immunochemical analysis. *Comp Biochem Physiol B Biochem Mol Biol* 128:625-634.
- Thrombospondin I (bovine)** Cat. no. CSI 002-65 (A65M)
- Johnson PR, Black JL, Carlin S, Ge Q, Underwood PA (2000) The production of extracellular matrix proteins by human passively sensitized airway smooth-muscle cells in culture: the effect of beclomethasone. *Am J Respir Crit Care Med* 162:2145-2151.
  - Matthias LJ, Gotis-Graham I, Underwood PA, McNeil HP, Hogg PJ (1996) Identification of monoclonal antibodies that recognize different disulphide bonded forms of thrombospondin 1. *Biochem Biophys Acta* 1216:138-144.
  - Underwood PA, Bean PA, Cubeddu L (2001) Human endothelial cells grow poorly on vitronectin: role of PAI-1. *J Cell Biochem* 82:98-109.
- Vitronectin (human)** Cat. no. CSI 003-02 (HV2), CSI 003-08 (HV8), CSI 003-21 (HV21), CSI 003-23 (HV23), (bovine) CSI 004-18 (A18) and CSI 004-27 (A27)
- Gelissen IC, Hochgrebe T, Wilson MR, Easterbrook-Smith SB, Jessup W, Dean RT, Brown AJ (1998) Apolipoprotein J (clusterin) induces cholesterol export from macrophage-foam cells: a potential anti-atherogenic function? *Biochem J* 331:231-237.
  - McFarland CD, Thomas CH, DeFilippis C, Steele JG, Healy KE (2000) Protein adsorption and cell attachment to patterned surfaces. *J Biomed Mater Res* 49:200-210.
  - Morris CA, Underwood PA, Bean PA, Sheehan M, Charlesworth JA (1994) Relative topography of biologically active domains of human vitronectin. Evidence from monoclonal antibody epitope and denaturation studies. *J Biol Chem* 269:23845-23852.
  - Sethi KK, Yannas IV, Muderu V, Eastwood M, McFarland C, Brown RA (2002) Evidence for sequential utilization of fibronectin, vitronectin, and collagen during fibroblast-mediated collagen contraction. *Wound Repair Regen* 10:397-408.
  - Thomas CH, McFarland CD, Jenkins ML, Rezanian A, Steele JG, Healy KE (97) The role of vitronectin in the attachment and spatial distribution of bone-derived cells on materials with patterned surface chemistry. *J Biomed Mater Res* 87:81-93.
  - Underwood PA, Kirkpatrick A, Mitchell SM (2002) New insights into heparin binding to vitronectin: studies with monoclonal antibodies. *Biochem J* 365:57-67.
  - Underwood PA, Bennett FA (1989) A comparison of the biological activities of the cell-adhesive proteins vitronectin and fibronectin. *J Cell Sci* 93:641-649.
  - Underwood PA, Steele JG, Dalton BA, Bennet FA (1990). Solid phase monoclonal antibodies. A novel method of directing the function of biologically active molecules by presenting a specific concentration. *J Immunol Methods* 127:91-102.
  - Underwood PA, Steele JG, Dalton BA (1993) Effects of polystyrene surface chemistry on biological activity of solid phase fibronectin and vitronectin, analysed with monoclonal antibodies. *J Cell Sci* 104:793-803.
  - Underwood PA, Bean PA, Mitchell SM, Whitelock JM (2001) Specific affinity depletion of cell adhesion molecules and growth factors from serum. *J Immunol Methods* 247:217-224.
  - Underwood PA, Whitelock JM, Bean PA, Steele JG (2002) Effects of base material, plasma proteins and FGF2 on endothelial cell adhesion and growth. *J Biomater Sci Polym Ed* 13:845-862.

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