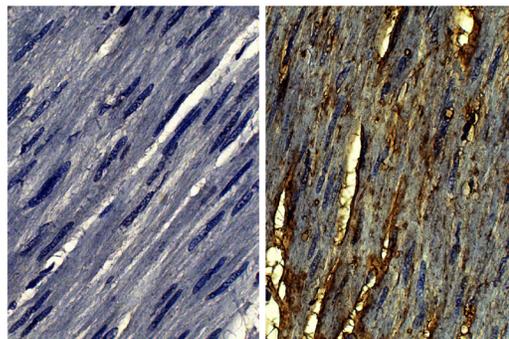




Goat Anti-Type VI Collagen

Cat. No.	Format	Size
1360-01	Purified (UNLB)	0.2 mg
1360-08	Biotin (BIOT)	0.2 mg



Paraffin embedded human gastric cancer tissue was stained with Goat IgG-UNLB isotype control (SB Cat. No. 0109-01; left) and Goat Anti-Type VI Collagen-UNLB (SB Cat. No. 1360-01; right) followed by Swine Anti-Goat IgG(H+L), Human/Rat/Mouse SP ads-BIOT (SB Cat. No. 6300-08), Streptavidin-HRP (SB Cat. No. 7100-05), DAB, and hematoxylin.

Description

Specificity	Reacts with conformational determinants on type VI collagen Referenced species reactivities include – Human ^{1-3,5,6,9-11,13,14,16-19} Canine ²⁰ Mouse ^{12,15} Cynomolgus ²⁰ Rat ^{8,20} Porcine ⁴ Bovine ¹⁷ Rabbit ⁷
Source	Pooled antisera from goats hyperimmunized with type VI collagen
Cross Adsorption	Collagen types I, II, III, IV, and V
Purification	Affinity chromatography on type VI collagen covalently linked to agarose

Applications

Quality tested applications include –
ELISA ¹

Other referenced applications include –

IHC-PS ²⁻¹⁵
IHC-FS ^{7,16,17}
ICC ^{7,18}
EM ¹⁹
WB ²⁰

Working Dilutions

ELISA	BIOT conjugate	1:1,000 – 1:4,000
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.2 mg of purified immunoglobulin in 0.5 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.2 mg in 0.5 mL of PBS/NaN₃. Store at 2-8°C.
- Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Rasmussen LM, Hansen PR, Ledet T. Homocysteine and the production of collagens, proliferation and apoptosis in human arterial smooth muscle cells. *APMIS*. 2004;112:598-604. (ELISA, Human Reactivity)
2. Horie K, Miyata T, Maeda K, Miyata S, Sugiyama S, Sakai H, et al. Immunohistochemical colocalization of glycoxidation products and lipid peroxidation products in diabetic renal glomerular lesions. Implication for glycoxidative stress in the pathogenesis of diabetic nephropathy. *J Clin Invest*. 1997;100:2995-3004. (IHC-PS, Human Reactivity)
3. Tsutsumi Y, Tazawa K, Shibuya M. Type VI collagen immunoreactivity in skinoid fibers in small intestinal stromal tumors. *Pathol Int*. 1999;49:836-9. (IHC-PS, Human Reactivity)
4. White SA, Hughes DP, Contractor HH, London NJ. An investigation into the distribution of different collagen types within adult and juvenile porcine pancreata. *J Mol Med*. 1999;77:79-82. (IHC-PS, Porcine Reactivity)
5. Shigemitsu T, Ishiguro K, Shimizu Y, Horiguchi M, Kasahara M, Arakaki S. Immunocytochemical features of lens after cataract tissue – signalling molecules (growth factors, cytokines, other signalling molecules), cytoskeleton proteins, cellular and extracellular matrix proteins. *Int Ophthalmol*. 2001;23:137-44. (IHC-PS, Human Reactivity)
6. Saika S, Yamanaka O, Baba Y, Kawashima Y, Shirai K, Miyamoto T, et al. Accumulation of latent transforming growth factor- β binding protein-1 and TGF β 1 in extracellular matrix of filtering bleb and of cultured human subconjunctival fibroblasts. *Graefes Arch Clin Exp Ophthalmol*. 2001;239:234-41. (IHC-PS, Human Reactivity)
7. Ishida I, Saika S, Ohnishi Y. Effect of minoxidil on rabbit lens epithelial cell behavior in vitro and in situ. *Graefes Arch Clin Exp Ophthalmol*. 2001;239:770-7. (IHC-PS, IHC-FS, ICC, Rabbit Reactivity)
8. Palmans E, Pauwels RA, Kips JC. Repeated allergen exposure changes collagen composition in airways of sensitised Brown Norway rats. *Eur Respir J*. 2002;20:280-5. (IHC-PS, Rat Reactivity)
9. Saika S, Miyamoto T, Tanaka T, Ohnishi Y, Ooshima A, Kimura W. Histopathology of anterior lens capsules in vitrectomized eyes with tamponade by silicone oil. *J Cataract Refract Surg*. 2002;28:376-8. (IHC-PS, Human Reactivity)
10. Gittenberger-de Groot AC, Bartram U, Oosthoek PW, Bartelings MM, Hogers B, Poelmann RE, et al. Collagen type VI expression during cardiac development and in human fetuses with trisomy 21. *Anat Rec A Discov Mol Cell Evol Biol*. 2003;275:1109-16. (IHC-PS, Human Reactivity)
11. Saika S, Miyamoto T, Ishida I, Barbour WK, Ohnishi Y, Ooshima A. Accumulation of thrombospondin-1 in post-operative capsular fibrosis and its down-regulation in lens cells during lens fiber formation. *Exp Eye Res*. 2004;79:147-56. (IHC-PS, Human Reactivity)
12. Schaefer L, Mihalik D, Babelova A, Krzyzankova M, Gröne H, Iozzo RV, et al. Regulation of fibrillin-1 by biglycan and decorin is important for tissue preservation in the kidney during pressure-induced injury. *Am J Pathol*. 2004;165:383-96. (IHC-PS, Mouse Reactivity)
13. Ishida I, Saika S, Okada Y, Ohnishi Y. Growth factor deposition in anterior subcapsular cataract. *J Cataract Refract Surg*. 2005;31:1219-25. (IHC-PS, Human Reactivity)
14. Pecorella I, Taloni M, Ciardi A, Alexander RA, Falcinelli G. Osteo-odonto-keratoprosthesis: a human model of autotransplant. *Curr Eye Res*. 2006;31:835-43. (IHC-PS, Human Reactivity)
15. Kruithof BP, Krawitz SA, Gaussin V. Atrioventricular valve development during late embryonic and postnatal stages involves condensation and extracellular matrix remodeling. *Dev Biol*. 2007;302:208-17. (IHC-PS, Mouse Reactivity)
16. Jeffery G, Evans A, Albon J, Duance V, Neal J, Dawidek G. The human optic nerve: fascicular organisation and connective tissue types along the extra-fascicular matrix. *Anat Embryol*. 1995;191:491-502. (IHC-FS, Human Reactivity)
17. Fraser SA, Crawford A, Frazer A, Dickinson S, Hollander AP, Brook IM, et al. Localization of type VI collagen in tissue-engineered cartilage on polymer scaffolds. *Tissue Eng*. 2006;12:569-77. (IHC-FS, Bovine & Human Reactivity)
18. Hsieh-Bonassera ND, Wu I, Lin JK, Schumacher BL, Chen AC, Masuda K, et al. Expansion and redifferentiation of chondrocytes from osteoarthritic cartilage: cells for human cartilage tissue engineering. *Tissue Eng Part A*. 2009;15:3513-23. (ICC, Human Reactivity)
19. Dingemans KP, Teeling P, Lagendijk JH, Becker AE. Extracellular matrix of the human aortic media: an ultrastructural histochemical and immunohistochemical study of the adult aortic media. *Anat Rec*. 2000;258:1-14. (EM, Human Reactivity)
20. Bashey RI, Martinez-Hernandez A, Jimenez SA. Isolation, characterization, and localization of cardiac collagen type VI. Associations with other extracellular matrix components. *Circ Res*. 1992;70:1006-17. (WB, Canine, Cynomolgus, & Rat Reactivity)

TB1360
16-Jul-18

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA

Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768

Email: info@southernbiotech.com • **Website:** www.southernbiotech.com