

bs-0549R**[Primary Antibody]****COL3A1 | Collagen III Rabbit pAb****BioSS**
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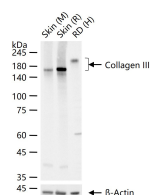
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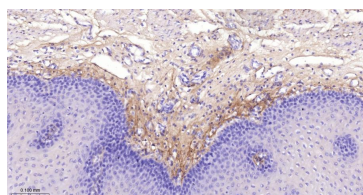
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 1281**SWISS:** P02461**Target:** COL3A1 | Collagen III**Immunogen:** KLH conjugated synthetic peptide derived from human Collagen alpha 1(III) chain: 1301-1400/1466.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.**Background:** The extensive family of COL gene products (collagens) is composed of several chain types, including fibril-forming interstitial collagens (types I, II, III and V) and basement membrane collagens (type IV), each type containing multiple isoforms. Collagens are fibrous, extracellular matrix proteins with high tensile strength and are the major components of connective tissue, such as tendons and cartilage. All collagens contain a triple helix domain and frequently show lateral self-association in order to form complex connective tissues. Several collagens also play a role in cell adhesion, important for maintaining normal tissue architecture and function.

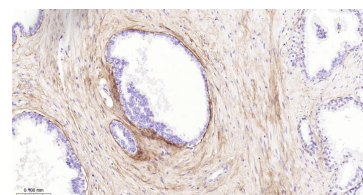
This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.

Applications: **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**ICC/IF** (1:50-200)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 117 kDa**Observed MW.:** 150-200 kDa**Subcellular Location:** Secreted ,Extracellular matrix**— VALIDATION IMAGES —**

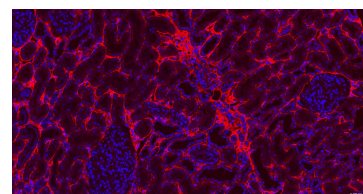
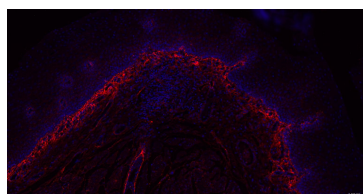
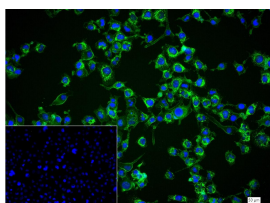
25 ug total protein per lane of various lysates (see on figure) probed with Collagen III polyclonal antibody, unconjugated (bs-0549R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Esophagus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Collagen III Polyclonal Antibody, Unconjugated (bs-0549R) at 1:500 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Prostate Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Collagen III Polyclonal Antibody, Unconjugated (bs-0549R) at 1:500 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

4% Paraformaldehyde-fixed RD (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Collagen III) polyclonal Antibody, unconjugated (bs-0549R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

Paraformaldehyde-fixed, paraffin embedded Human Esophagus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Collagen III Polyclonal Antibody, Unconjugated (bs-0549R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, bs-0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.

Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Collagen III Polyclonal Antibody, Unconjugated (bs-0549R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, bs-0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=18]** Dijun Li. et al. Tissue-engineered mesenchymal stem cell constructs alleviate tendinopathy by suppressing vascularization. BIOACT MATER. 2024 Jun;36:474 IF ;Rat. 39055350
- **[IF=14.3]** Mi Bai. et al. Meis1 Targets Protein Tyrosine Phosphatase Receptor J in Fibroblast to Retard Chronic Kidney Disease Progression. ADV SCI. 2024 Aug;:2309754 WB ;Mouse. 39162106
- **[IF=14.26]** Mi Bai. et al. LONP1 targets HMGS2 to protect mitochondrial function and attenuate chronic kidney disease. EMBO MOL MED. 2023 Jan 11 WB ;Mouse. 36629048
- **[IF=10]** Qiao Yang. et al. Coaxial Electrospun Nanofibrous Membranes as Dual-Functional Biomimetic Tendon Sheath for Tendon Repair and Anti-Peritendinous Adhesion. ADV HEALTHC MATER. 2024 Nov;:2402074 WB ;Rat. 39600050
- **[IF=10]** Wanqing Lun. et al. Fabrication of MnO₂-Modified Decellularized Tendon Membrane for Enhancing Tendon Repair. ADV HEALTHC MATER. 2024 Nov;:2402584 IHC ;Rat. 39491818