bs-0553R **[Primary Antibody]**

Collagen VI alpha 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1291 **SWISS:** P12109

Target: Collagen VI alpha 1

Immunogen: KLH conjugated synthetic peptide derived from human Collagen VI: 951-1028/1028.

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 collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy. [provided by RefSeq, Jul 2008]

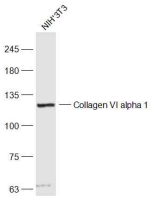
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit)

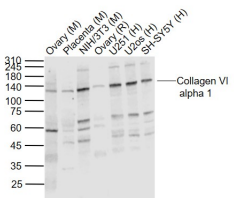
Predicted MW.: 106 kDa

Subcellular Location: Cytoplasm

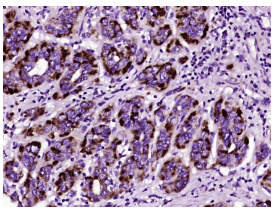
VALIDATION IMAGES



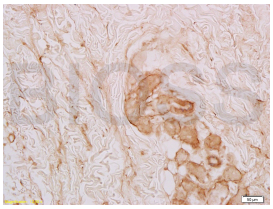
Sample: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti-Collagen VI alpha 1 (bs-0553R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size:106 kD Observed band size: 131 kD



Sample: Lane 1: Ovary (Mouse) Lysate at 40 ug Lane 2: Placenta (Mouse) Lysate at 40 ug Lane 3: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 4: Ovary (Rat) Lysate at 40 ug Lane 5: U251 (Human) Cell Lysate at 30 ug Lane 6: U2os (Human) Cell Lysate at 30 ug Lane 7: SH-SY5Y (Human) Cell Lysate at 30 ug Primary: Anti-Collagen VI alpha 1 (bs-0553R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 109 kD Observed band size: 125 kD



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Collagen VI alpha 1) Polyclonal Antibody, Unconjugated (bs-0553R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: The skin of the infant; 4% Paraformaldehyde-fixed and paraffin-

embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Collagen-VI-alpha1 Polyclonal Antibody, Unconjugated(bs-0553R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=1.794]** Gao X et al. Alteration and prognostic values of collagen gene expression in patients with gastric cancer under different treatments. Pathol Res Pract. 2020 Mar;216(3):152831. IHC ;Human. 32005407
- **[IF=1.785]** Xiaoyan Yu. et al. Ginkgo biloba leaf extract prevents diabetic nephropathy through the suppression of tissue transglutaminase. Exp Ther Med. 2021 Apr;21(4):1-1 ELISA ;Rat. 33732306
- **[IF=1.837]** Yang Zhang. et al. Plumbagin Inhibits Proliferation, Migration, and Invasion of Retinal Pigment Epithelial Cells Induced by FGF-2. Tissue Cell. 2021 Oct;72:101547 WB ;Human. 33964605
- **[IF=2.4]** Elena Stocco. et al. The suprapatellar fat pad: A histotopographic comparative study. J ANAT. 2023 Nov;: IHC ;Human. 38030148