
Collagen I Recombinant Rabbit mAb

Catalog Number: bsm-52478R

Target Protein: Collagen I

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Recombinant

Clone No.: 5F2

Isotype: IgG

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

Reactivity: Human (predicted:Cow)

Predicted MW: 130 kDa

Entrez Gene: 1277

Swiss Prot: P02452

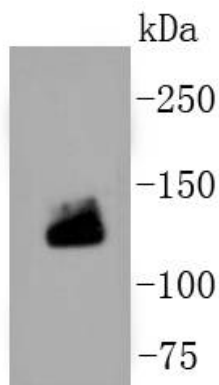
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

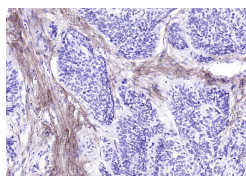
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Collagens are highly conserved throughout evolution and are characterised by an uninterrupted "Glycine X Y" triplet repeat that is a necessary part of the triple helical structure. Type I collagen (95 kDa) is found in bone, cornea, skin and tendon. Mutations in the encoding gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for Platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor.

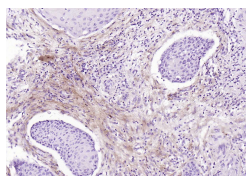
VALIDATION IMAGES



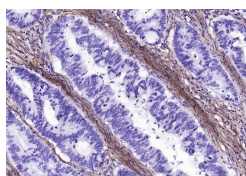
Sample: Lane 1: human placenta tissue lysates Primary: Anti-Collagen I (bsm-52478R) at 1:500 dilution
Secondary: Goat Anti-Rabbit IgG - HRP at 1:5000 dilution Predicted band size: 130 kD Observed band size: 130 kD



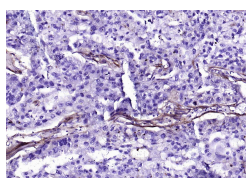
Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by microwaving in EDTA buffer (pH8.0) for 5min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Collagen I) Monoclonal Antibody, Unconjugated (bsm-52478R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



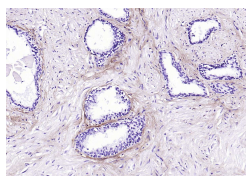
Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by microwaving in EDTA buffer (pH8.0) for 5min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Collagen I) Monoclonal Antibody, Unconjugated (bsm-52478R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by microwaving in EDTA buffer (pH8.0) for 5min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Collagen I) Monoclonal Antibody, Unconjugated (bsm-52478R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human skin cancer); 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 I) Monoclonal Antibody, Unconjugated (bsm-52478R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human prostate); 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 I) Monoclonal Antibody, Unconjugated (bsm-52478R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=11.322] Jinxiu Yu. et al. Promoting osseointegration of titanium by pH-responsive releasing of H₂S and optimizing polarization time for macrophages. COMPOS PART B-ENG. 2023 Mar;253:110554 IHC ; Rat . 10.1016/j.compositesb.2023.110554

[IF=3.913] Xiaoliang Zhou. et al. Ursolic acid inhibits human dermal fibroblasts hyperproliferation, migration, and collagen deposition induced by TGF- β via regulating the Smad2/3 pathway. GENE. 2023 May;867:147367 WB ; Human . 36931410

[IF=3.2] Yiyang Fan. et al. Effects and Significance of Dicliptera chinensis Polysaccharide on the Expression of Transforming Growth Factor β 1/Connective Tissue Growth Factor Pathway in the Masseter and Head and Neck Skin of Rats With Radiation-Induced Fibrosis. INT DENT J. 2024 Jul;; IHC ; Rat . 38991877