

bsm-52478R**[Primary Antibody]**

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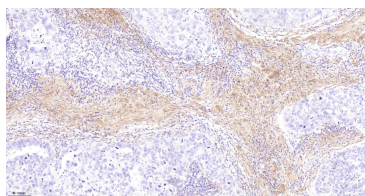
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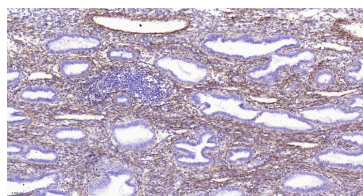
400-901-9800

Collagen I Recombinant Rabbit mAb**— DATASHEET —**

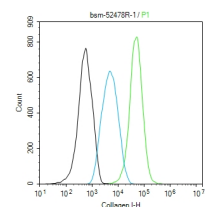
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1:50-100) Reactivity: Human (predicted: Cow) Predicted MW.: 130 kDa Subcellular Location: Secreted ,Extracellular matrix
Clonality: Recombinant	CloneNo.: 5F2	
GeneID: 1277	SWISS: P02452	
Target: Collagen I		
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: 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 —

Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Collagen I Monoclonal Antibody, Unconjugated (bsm-52478R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Uterus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Collagen I Monoclonal Antibody, Unconjugated (bsm-52478R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



The U-87MG (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-Collagen I antibody (bsm-52478R, 1:100); Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488): 1 µg/test. Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[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

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

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

- **[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..INTERNATIONAL DENTAL JOURNAL.2025 Apr;75(2):784-796. IHC ;Rat. 38991877
- **[IF=2.6]** Han Wang. et al. Ganoderma lucidum extract reduces skin aging by reducing mitochondrial stress and controlling mitochondrial numbers. FITOTERAPIA. 2025 May;;106627 IHC ;Mouse. 40381851