

bsm-33409M**[Primary Antibody]**

Collagen II Mouse mAb

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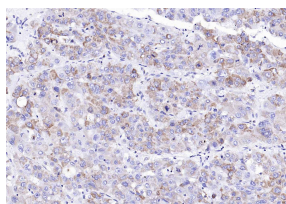
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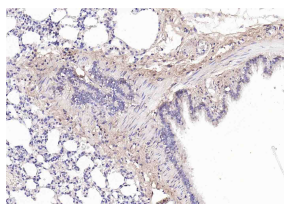
— DATASHEET —

Host: Mouse	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Rat (predicted: Mouse) Predicted MW.: 142 kDa Subcellular Location: Secreted ,Extracellular matrix
Clonality: Monoclonal	CloneNo.: 9H12	
GeneID: 1280	SWISS: P02458	
Target: Collagen II		
Immunogen: KLH conjugated synthetic peptide derived from human Collagen II: 1301-1400/1487.		
Purification: affinity purified by Protein G		
Concentration: 1mg/ml		
Storage: Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene. [provided by RefSeq, Jul 2008]		

— VALIDATION IMAGES —



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 II) Monoclonal Antibody, Unconjugated (bsm-33409M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat lung); 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 II) Monoclonal Antibody, Unconjugated (bsm-33409M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=18.9]** Jintao Li. et al. Controlled-release hydrogel loaded with magnesium-based nanoflowers synergize immunomodulation and cartilage regeneration in tendon-bone healing. BIOACT MATER. 2024 Jun;36:62 IF ;Rat. 38440323

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

- **[IF=15.304]** Yiyun Zhang. et al. Locally delivered modified citrus pectin - a galectin-3 inhibitor shows expected anti-inflammatory and unexpected regeneration-promoting effects on repair of articular cartilage defect. BIOMATERIALS. 2022 Dec;291:121870 IHC ;Rabbit. 36343609
- **[IF=10.2]** Zihan Wang. et al. Crosslinking Stabilization Strategy: A Novel Approach to Cartilage-like Repair of Annulus Fibrosus (AF) Defects. MATER TODAY BIO. 2025 Mar;;101625 IHC ;Rabbit. 40124345
- **[IF=5.8]** Ze-Nan Huang. et al. SR9009 attenuates inflammation-related NPMSC pyroptosis and IVDD through NR1D1/NLRP3/IL-1 β pathway. ISCIENCE. 2024 May;27: IF ;Rat. 38689641
- **[IF=5.7]** Shanchao Luo. et al. A novel cartilage-targeting MOF-HMME-RGD sonosensitizer combined with sonodynamic therapy to enhance chondrogenesis and cartilage regeneration. FRONT BIOENG BIOTECH. 2024; 12: 1339530 IHC ;Rat. 38361795