

**bsm-52040R****[ Primary Antibody ]**

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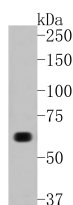
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**COL10A1 Recombinant Rabbit mAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Recombinant	<b>CloneNo.:</b> 6C10	<b>Reactivity:</b> Rat (predicted: Human, Mouse)
<b>GeneID:</b> 1300	<b>SWISS:</b> A1L4P2	<b>Predicted MW.:</b> 73 kDa
<b>Target:</b> COL10A1		<b>Subcellular Location:</b> Extracellular matrix
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human COL10A1:: 501-600/680.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> This gene encodes the alpha chain of type X collagen, a short chain collagen expressed by hypertrophic chondrocytes during endochondral ossification. Unlike type VIII collagen, the other short chain collagen, type X collagen is a homotrimer. Mutations in this gene are associated with Schmid type metaphyseal chondrodysplasia (SMCD) and Japanese type spondylometaphyseal dysplasia (SMD). [provided by RefSeq, Jul 2008].		

**— VALIDATION IMAGES —**

Sample: Lane 1: Liver (Rat) Lysate at 40 ug  
Primary: Anti-Collagen X (bsm-52040R) at 1/500  
dilution Secondary: Goat Anti-Rabbit IgG - HRP  
at 1/5000 dilution Predicted band size: 73 kD  
Observed band size: 66 kD

**— SELECTED CITATIONS —**

- **[IF=9.078]** Tzu-Hsiang Lin. et al. A bilineage thermosensitive hydrogel system for stimulation of mesenchymal stem cell differentiation and enhancement of osteochondral regeneration. Compos Part B-Eng. 2022 Jan;;109614 ICC ;Rabbit. 10.1016/j.compositesb.2022.109614