

bs-10200R**[Primary Antibody]**

Sclerostin Rabbit pAb

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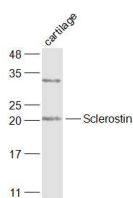
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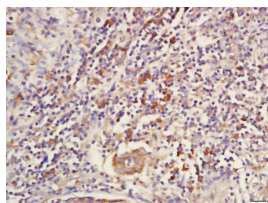
— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Sheep, Cow, Dog, Horse) Predicted MW.: 21 kDa Subcellular Location: Cytoplasm
Clonality: Polyclonal		
GeneID: 50964	SWISS: Q9BQB4	
Target: Sclerostin		
Immunogen: KLH conjugated synthetic peptide derived from human Sclerostin: 121-180/213.		
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: Negative regulator of bone growth.Sclerostin (SOST) is a bone morphogenetic protein (BMP) antagonist, leading to the activation of BMP signaling. It negatively regulates the formation of bone by repressing the differentiation and/or function of osteoblasts induced by BMPs. It has been shown that Sclerostin binds BMP-5, -6, and -7 with high affinity and BMP-2 and -4 with low affinity. The noggin-sclerostin protein complex represents a novel mechanism for the fine-tuning of BMP activity in bone homeostasis. Evidence is accumulating that one of the important mechanisms of bone regulation by sclerostin is the modulation of Wnt/Beta-catenin signaling. Sclerostin also rapidly activated ERK-1/2 MAPK signaling, indicating the involvement of additional signaling pathways		

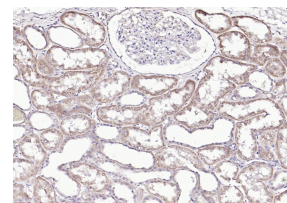
— VALIDATION IMAGES —



Sample: Cartilage(Rat) Lysate at 40 ug Primary:
Anti-Sclerostin (bs-10200R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution Predicted band size: 21 kD
Observed band size: 21 kD



Tissue/cell: human laryngocarcinoma; 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-Sclerostin Polyclonal Antibody,
Unconjugated(bs-10200R) 1:200, overnight at
4°C, followed by conjugation to the secondary
antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded
(Human kidney); 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 (Sclerostin) Polyclonal
Antibody, Unconjugated (bs-10200R) at 1:200
overnight at 4°C, followed by operating
according to SP Kit(Rabbit) (sp-0023)
instructionsand DAB staining.

— SELECTED CITATIONS —

- **[IF=16.6]** Chen Shengqiang. et al. Local H2 release remodels senescence microenvironment for improved repair of injured bone. NAT COMMUN. 2023 Nov;14(1):1-16 IF ;Mouse. 38012166
- **[IF=9.4]** Wyonna Darleen Rindt. et al. A 3D bioreactor model to study osteocyte differentiation and mechanobiology under perfusion and compressive mechanical loading. ACTA BIOMATER. 2024 Aug;184:210 IF ;Mouse. 38969078

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

- **[IF=8.728]** Yoo-Sung Nam. et al. Sclerostin in Periodontal Ligament: Homeostatic Regulator in Biophysical Force-Induced Tooth Movement. J CLIN PERIODONTOL. 2022 Apr 03 IF ;Rat. 35373367
- **[IF=8.213]** Yiqi Yanget al. Bioprinting of an osteocyte network for biomimetic mineralization. Biofabrication . 2020 Jul 29;12(4):045013. ICC ;mouse. 32610301
- **[IF=6.1]** Weiyi Zhang. et al. A novel antimycin analogue antimycin A2c, derived from marine Streptomyces sp., suppresses HeLa cells via disrupting mitochondrial function and depleting HPV oncoproteins E6/E7. LIFE SCI. 2023 Oct;330:121998 WB ;Human. 37536615