

**bs-4729R****[ Primary Antibody ]**

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**Bone Sialoprotein Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>ELISA</b> (1:5000-10000)
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 15891	<b>SWISS:</b> Q61711	<b>Reactivity:</b> Mouse (predicted: Human, Rat, Pig, Dog, GuineaPig, Horse)
<b>Target:</b> Bone Sialoprotein		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from mouse Bone Sialoprotein: 241-317/317.		
<b>Purification:</b> affinity purified by Protein A		<b>Predicted MW.:</b> 35 kDa
<b>Concentration:</b> 1mg/ml		<b>Subcellular Location:</b> Secreted
<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> The protein encoded by this gene is a major structural protein of the bone matrix. It constitutes approximately 12% of the noncollagenous proteins in human bone and is synthesized by skeletal-associated cell types, including hypertrophic chondrocytes, osteoblasts, osteocytes, and osteoclasts. The only extraskelatal site of its synthesis is the trophoblast. This protein binds to calcium and hydroxyapatite via its acidic amino acid clusters, and mediates cell attachment through an RGD sequence that recognizes the vitronectin receptor. [provided by RefSeq, Jul 2008]		

**— SELECTED CITATIONS —**

- **[IF=7.1]** Qin Qianyi. et al. FAM96B negatively regulates FOSL1 to modulate the osteogenic differentiation and regeneration of periodontal ligament stem cells via ferroptosis. STEM CELL RES THER. 2024 Dec;15(1):1-18 IF ;Rat. 39696611
- **[IF=2.81]** Han et al.  $\beta$ -catenin enhances odontoblastic differentiation of dental pulp cells through activation of Runx2. (2014) PLoS.On. 9:e88890 WB ;Human. 24520423
- **[IF=2.5]** Tetsuya Seto. et al.Methylglyoxal compromises callus mineralization and impairs fracture healing through suppression of osteoblast terminal differentiation.biochemical and biophysical research communications.2025 Feb 2:747:151312. Western blot ;Mouse. 39799866
- **[IF=1.26]** Bugueño, Juan, et al. "Canine mesenchymal stem cell bone regenerative capacity is regulated by site-specific multi-lineage differentiation." Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology (2016). WB ;="Dog". 27876576