bs-12359R

[Primary Antibody]

DMP1 Rabbit pAb



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- DATASHEET		400-901-9800
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500)
Clonality: Polyclonal GenelD: 1758 Target: DMP1 Immunogen: KLH conjug 221-320/513 Purification: affinity puri Concentration: 1mg/ml		IHC-F (1:100-500) IF (1:100-500) ICC/IF (1:100-500) ELISA (1:5000-10000) Reactivity: (predicted: Human)
 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: DMP-1 is a member of the small integrin ligand N-linked glycoprotein family. It is important for the mineralization of bone and dentin. DMP-1 is expressed in bone, tooth and hypertrophic cartilage. It is synthesized by preosteoblasts and contains a large number of acidic domains. DMP-1 localizes to the nucleus of undifferentiated osteoblasts where it functions as a transcriptional regulator for osteoblast-specific gene activation and induces osteoblast differentiation. During osteoblast maturation, DMP-1 undergoes a conformational change and becomes phosphorylated by casein kinase II in response to an influx of calcium ions to the nucleus. DMP-1 is then exported to the extracellular matrix (ECM) where it regulates the nucleation of hydroxyapatite and the formation of calcified tissue. DMP-1 is proteolytically processed into N- and C-terminal fragments in the ECM of bone and dentin. The protein has also been identified in bone as a high molecular weight proteoglycan comprised of the N-terminal DMP-1 fragment and chondroitin sulfate. The loss of DMP-1 can result in hypomineralized bone. 		

- SELECTED CITATIONS -

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- [IF=8.5] Haoqing Yang. et al. miR615-3p inhibited FBLN1 and osteogenic differentiation of umbilical cord mesenchymal stem cells by associated with YTHDF2 in a m6A-miRNA interaction manner. CELL PROLIFERAT. 2024 Feb;:e13607 WB,IF;Human. 38353178
- [IF=8.079] Luo Bin. et al. Residual periodontal ligament in the extraction socket promotes the dentin regeneration potential of DPSCs in the rabbit jaw. STEM CELL RES THER. 2023 Dec;14(1):1-14 IHC ;Rabbit. 36941706
- [IF=7.5] Luo Xinghong. et al. Odontoblasts release exosomes to regulate the odontoblastic differentiation of dental pulp stem cells. STEM CELL RES THER. 2023 Dec;14(1):1-16 WB ;Mouse. 37422687
- [IF=6.684] Ning Wang. et al. miR-6807-5p Inhibited the Odontogenic Differentiation of Human Dental Pulp Stem Cells Through Directly Targeting METTL7A. Front Cell Dev Biol. 2021; 9: 759192 IHC ;Mouse. 34790668