

bs-8557R**[Primary Antibody]****DSPP Rabbit pAb****BioSS**
ANTIBODIES

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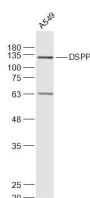
sales@bioss.com.cn

techsupport@bioss.com.cn

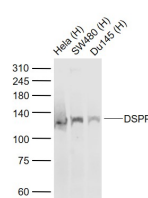
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DATASHEET

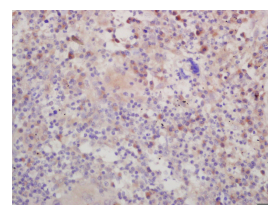
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human Predicted MW.: 47/129 kDa Subcellular Location: Secreted ,Extracellular matrix
Clonality: Polyclonal		
GeneID: 1834	SWISS: Q9NZW4	
Target: DSPP		
Immunogen: KLH conjugated synthetic peptide derived from human Dentin sialoprotein: 101-220/1301.		
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: This gene encodes two principal proteins of the dentin extracellular matrix of the tooth. The preproprotein is secreted by odontoblasts and cleaved into dentin sialoprotein and dentin phosphoprotein. Dentin phosphoprotein is thought to be involved in the biomineralization process of dentin. Mutations in this gene have been associated with dentinogenesis imperfecta-1; in some individuals, dentinogenesis imperfecta occurs in combination with an autosomal dominant form of deafness. Allelic differences due to repeat polymorphisms have been found for this gene. [provided by RefSeq, Jul 2008]		

VALIDATION IMAGES

Sample: A549(Human) Cell Lysate at 30 ug
Primary: Anti-DSPP (bs-8557R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47/129 kD
Observed band size: 129 kD



Sample: Lane 1: HeLa (Human) Cell Lysate at 30 ug
Lane 2: SW480 (Human) Cell Lysate at 30 ug
Lane 3: Du145 (Human) Cell Lysate at 30 ug
Primary: Anti-DSPP (bs-8557R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 140 kD
Observed band size: 130 kD



Tissue/cell: human lung carcinoma; 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-DSPP Polyclonal Antibody, Unconjugated(bs-8557R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=10.8]** Li Yuanyuan. et al. CREB3L1 deficiency impairs odontoblastic differentiation and molar dentin deposition partially through the TMEM30B. INT J ORAL SCI. 2024 Oct;16(1):1-15 IF ;Mouse. 39384739
- **[IF=8.5]** Yifan Zhao. et al. Single-cell RNA-seq of in vitro expanded cells from cranial neural crest reveals a rare odontogenic sub-population. CELL PROLIFERAT. 2024 Jan;;e13598 IHC ;Mouse. 38196265
- **[IF=7.1]** Yi Zhang. et al. Impact of intercellular adhesion molecule 1-positive dental pulp stem cells in deep caries progression. INT ENDOD J. 2025 May;; WB ;Human. 40343788

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

- **[IF=6.064]** Yuanyuan Shi. et al. Decellularized rat submandibular gland as an alternative scaffold for dental pulp regeneration. FRONT BIOENG BIOTECH. 2023; 11: 1148532 IHC ;Rat. 37152652
- **[IF=6.064]** Natsuki Saito. et al. Gαs-Coupled CGRP Receptor Signaling Axis from the Trigeminal Ganglion Neuron to Odontoblast Negatively Regulates Dentin Mineralization. BIOMOLECULES. 2022 Dec;12(12):1747 IF ;Rat. 10.3390/biom12121747