

For Research Use Only

# DSPP Polyclonal antibody

Catalog Number: 55396-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 55396-1-AP	<b>GenBank Accession Number:</b> NM_014208	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1834	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> dentin sialophosphoprotein	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 131 kDa	
	<b>Observed MW:</b> 90-100 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b> WB : Caco-2 cells, LNCaP cells, MCF-7 cells IF : HeLa cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

## Background Information

DSPP (dentin sialophosphoprotein) is a precursor protein belongs to the small integrin-binding ligand N-linked glycoprotein (SIBLING) family. DSPP is secreted by odontoblasts and then is cleaved into 3 fragments: N-terminal dentin sialoprotein (DSP), intermediate dentin glycoprotein (DGP) and C-terminal dentin phosphoprotein (DPP) (PMID:22201843). DSP is heavily glycosylated but DPP is not. DSP and DPP are principle proteins of the dentin extracellular matrix of the tooth, with DSP having a role in dentinogenesis and DPP binding calcium, facilitating initial mineralization of dentin matrix collagen and regulating the size and shape of the crystals. This antibody recognizes the cleavage product of DSPP with a molecular mass of around 90 to 100 kDa (PMID: 21103065).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiange Zhao	36565046	Int Endod J	WB
Zitian Liang	37746049	Int J Nanomedicine	WB

## Storage

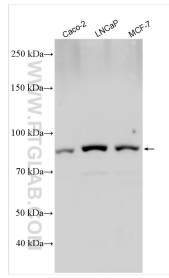
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

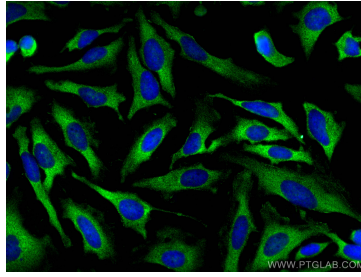
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55396-1-AP (DSPP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using DSPP antibody (55396-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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