

For Research Use Only

DSPP Polyclonal antibody

Catalog Number: 55396-1-AP

3 Publications



Basic Information

Catalog Number:

55396-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_014208

GeneID (NCBI):

1834

UNIPROT ID:

Q9NZW4

Full Name:

dentin sialophosphoprotein

Calculated MW:

131 kDa

Observed MW:

130-140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : HEK-293 cells, LNCaP cells, MCF-7 cells

IF/ICC : HeLa cells,

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 leaved 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. The molecular mass of full-length is around 130kDa(uniprot), 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
Qingxuan Zhao	38278124	Arch Oral Biol	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

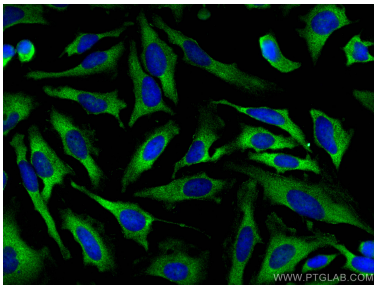
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

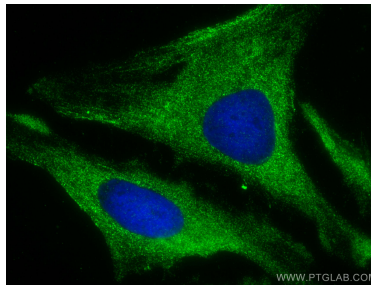
E: proteintech@ptglab.com
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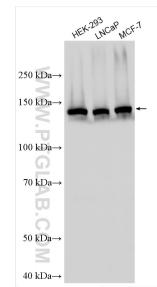
Selected Validation Data



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



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Various lysates were subjected to SDS PAGE followed by western blot with 55396-1-AP (DSPP antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.