Datasheet for ABIN1386864

anti-DSPP antibody

1 Image

Go to Product page

Overview

Quantity:	100 µL
Target:	DSPP
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DSPP antibody is un-conjugated
Application:	Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human DSPP/Dentin phosphophoryn
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	DSPP
Alternative Name:	DSPP (DSPP Products)
Background:	Synonyms: Dentin phosphophoryn, Dentin phosphoprotein, dentin phosphoryn, Dentin sialophosphoprotein, Dentin sialophosphoprotein precursor, Dentin sialoprotein, dentinogenesis imperfecta 1, DFNA39, DGI1, DMP3, DPP, DSP, Dspp, DSPP_HUMAN, DTDP2.

Target Details

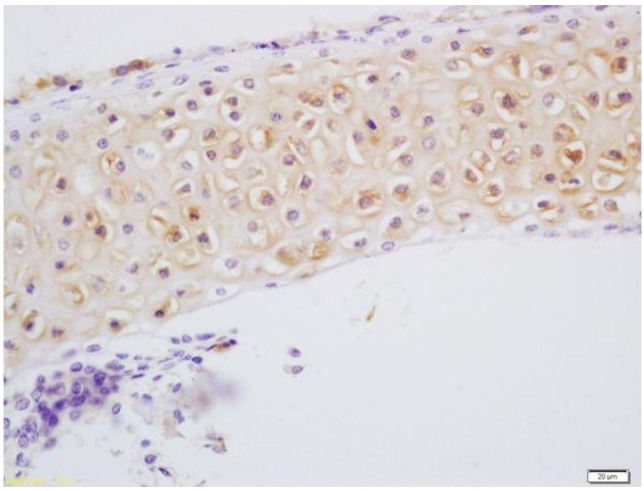
	Background: DSPP may be an important factor in dentinogenesis. DSPP may bind high amount of calcium and facilitate initial mineralization of dentin matrix collagen as well as regulate the size and shape of the crystals.The dentin sialophosphoprotein (DSPP) gene encodes two major noncollagenous dentin matrix proteins: dentin sialoprotein, known as DSP, and dentin phosphoprotein, known as phosphophoryn or DPP. The DSPP gene maps to human chromosome 4 and yields a 4.6 kb transcript containing 5 exons, with exons 1-4 encoding for DSP and exon 5 encoding for both the C-terminus of DSP and the full length DPP. DPP and DSP are acidic proteins that represent about 50 % of the noncollagenous proteins in the dentin extracellular matrix of teeth. The DSPP gene is a likely candidate gene for the genetic diseases associated with abnormal dentin formation such as dentinogenesis imperfecta type II and dentin dysplasia type II. DPP may bind large amounts of calcium and may facilitate initial mineralization of dentin matrix collagen as well as regulate the size and shape of the crystals.
Gene ID:	1834

Application Details

Application Notes:	IHC-P: (1:100-500), IF(IHC-P): (1:50-200) Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded bone of mouse embryo labeled with Anti-DSPP Polyclonal Antibody, Unconjugated (ABIN1386864) at 1:200 followed by conjugation to the secondary antibody and DAB staining