

## Product datasheet

# Anti-DSPP antibody ab216892

[11 References](#) [1 Image](#)

### Overview

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<b>Product name</b>	Anti-DSPP antibody
<b>Description</b>	Rabbit polyclonal to DSPP
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is considered to be commercially sensitive.
<b>Positive control</b>	Human laryngocarcinoma tissue
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 1% BSA, 48.98% TBS, 1X
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab216892 in the following tested applications.

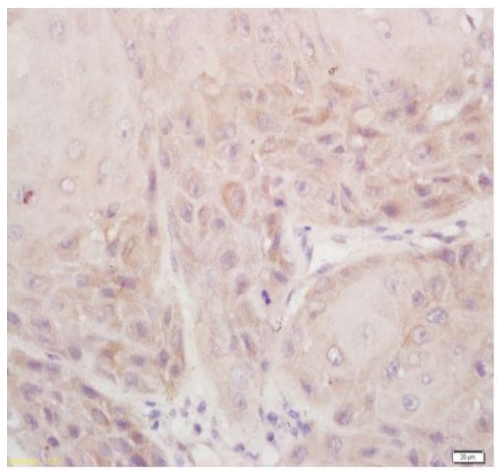
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500.

## Target

<b>Function</b>	DSP may be an important factor in dentinogenesis. DPP 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.
<b>Tissue specificity</b>	Expressed in teeth. DPP is synthesized by odontoblast and transiently expressed by pre-ameloblasts.
<b>Involvement in disease</b>	<p>Defects in DSPP are the cause of deafness autosomal dominant type 39 with dentinogenesis imperfecta 1 (DFNA39/DGI1) [MIM:605594]. Affected individuals present DGI1 associated with early onset progressive sensorineural high-frequency hearing loss.</p> <p>Defects in DSPP are the cause of dentinogenesis imperfecta type 1 (DGI1) [MIM:125490]; also known as dentinogenesis imperfecta Shields type 2 (DGI2). DGI1 is an autosomal dominant disorder in which both the primary and the permanent teeth are affected. It occurs with an incidence of 1:8000 live births. The teeth are amber and opalescent, the pulp chamber being obliterated by abnormal dentin. The enamel, although unaffected, tends to fracture, which makes dentin undergo rapid attrition, leading to shortening of the teeth.</p> <p>Defects in DSPP are a cause of dentinogenesis imperfecta Shields type 3 (DGI3) [MIM:125500]. Patients with DGI3 do not have stigmata of osteogenesis imperfecta. The finding that a single defects in the DSPP gene causes both phenotypic patterns of DGI2 and DGI3 strongly supports the conclusion that these two disorders are not separate diseases but rather the phenotypic variation of a single genetic defect.</p> <p>Defects in DSPP are the cause of dentin dysplasia type 2 (DTDP2) [MIM:125420]; also known as dentin dysplasia Shields type 2. DTDP2 is an autosomal dominant disorder in which mineralization of the dentine of the primary teeth is abnormal. On the basis of the phenotypic overlap between, and shared chromosomal location with DGI2 it has been proposed that DTDP2 and DGI2 are allelic. From the results of recent studies, it is clear that different types of mutations in DSPP lead to the two different phenotypes.</p>
<b>Post-translational modifications</b>	DSP is glycosylated.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.

## Images



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human laryngocarcinoma tissue labeling DSPP with ab216892 at 1/200 dilution, followed by conjugation to the secondary antibody and DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DSPP antibody (ab216892)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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