Mouse Anti-DSPP (Dentin Sialophosphoprotein) [LFMb21]: MC0456, MC0456RTU7

Intended Use: For Research Use Only

Description: DSPP or Dentin Sialophosphoprotein is a precursor protein that is secreted by odontoblasts and cleaved into dentin sialoprotein (DSP) and dentin phosphoprotein (DPP). 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. Mutations in the DSPP gene are associated with DFNA39/DGI1 (deafness, autosomal dominant, 39, with dentinogenesis imperfecta, a disease characterized by progressive heavy-frequency hearing loss, DGI2 (dentinogenesis imperfect 2) and DGI3 (dentinogenesis imperfecta 3), diseases characterized by amber-brown teeth that fracture and shed enamel with wear. This clone does not cross react with DSP.

Specifications:

Clone:	LFMb21
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human, mouse, rat, monkey
Immunogen:	Human DSPP aa 487-502
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA, and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ICC/IF, IP, WB

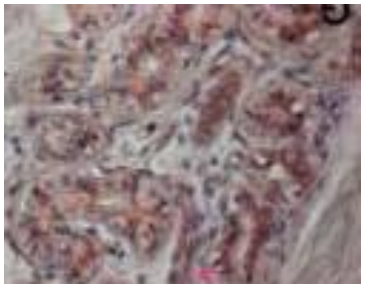
Package:

Description	Catalog No.	Size
DSPP (Dentin Sialophosphoprotein) Concentrated	MC0456	1 ml
DSPP (Dentin Sialophosphoprotein) Prediluted	MC0456RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Laryngocarcinoma, placenta
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human eccrine sweat glands stained with anti-DSPP using DAB

References:

1. Expression of Matrix Metalloproteinase (MMP)-20 and Potential Interaction with Dentin Sialophosphoprotein (DSPP) in Human Major Salivary Glands. Komal N Koli, et al. Journal of Histochemistry and Cytochemistry. March 2015
2. SIBLING Expression Patterns in Duct Epithelia Reflect the Degree of Metabolic Activity. Kalu Ogbureke, et al. Journal of Histochemistry and Cytochemistry. 2007.

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