



## Anti-Human DMP-1 (#35K29)

20230310DS



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M579</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with purified recombinant DMP-1).

### Target Background

<b>Synonyms (Target):</b>	Dentin matrix acidic phosphoprotein 1, DMP-1; Dentin matrix protein 1
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Dentin matrix acidic phosphoprotein 1 is a protein that in humans is encoded by the DMP1 gene. DMP1 is an extracellular matrix protein and a member of the small integrin-binding ligand N-linked glycoprotein (SIBLING) family (other members being DSPP, IBSP, MEPE, and SPP1). This protein, which is critical for proper mineralization of bone and dentin, is present in diverse cells of bone and tooth tissues. The protein contains a large number of acidic domains, multiple phosphorylation sites, a functional Arg-Gly-Asp cell attachment sequence, and a DNA binding domain. In undifferentiated osteoblasts it is primarily a nuclear protein that regulates the expression of osteoblast-specific genes.

### Database References Target

<b>Protein RefSeq:</b>	NP_001073380.1
<b>Uniprot ID:</b>	Q13316
<b>mRNA RefSeq:</b>	NM_001079911.2

### Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#35K29)
<b>Isotype</b>	IgG1
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	Recombinant Human DMP-1
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS

### Application/Handling

**Reconstitution:** Centrifuge vial prior to opening. Reconstitute the antibody with 500 µl sterile PBS and the final concentration is 200 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20°C for at least for six months without detectable loss of activity.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

The antibody can be used within the following applications:

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**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**