

# Anti-DMP1 Antibody

Rabbit Anti Rat Polyclonal Antibody  
Catalog # ALS17922

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">Q13316</a>
<b>Reactivity</b>	Rat
<b>Predicted</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	55782
<b>Concentration (mg/ml)</b>	0.5 mg/ml

## Additional Information

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<b>Gene ID</b>	1758
<b>Alias Symbol</b>	DMP1
<b>Other Names</b>	DMP1, Dentin matrix protein 1, DMP-1, ARHP, ARHR
<b>Target/Specificity</b>	Recognizes ~60-130 kDa DMP- 1 of human, mouse, and rat origins.
<b>Reconstitution &amp; Storage</b>	Affinity purified
<b>Precautions</b>	Anti-DMP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	DMP1
<b>Function</b>	May have a dual function during osteoblast differentiation. In the nucleus of undifferentiated osteoblasts, unphosphorylated form acts as a transcriptional component for activation of osteoblast- specific genes like osteocalcin. During the osteoblast to osteocyte transition phase it is phosphorylated and exported into the extracellular matrix, where it regulates nucleation of hydroxyapatite.
<b>Cellular Location</b>	Nucleus. Cytoplasm. Secreted, extracellular space, extracellular matrix. Note=In proliferating preosteoblasts it is nuclear, during early maturation stage is cytoplasmic and in mature osteoblast localizes in the mineralized matrix. Export from the nucleus of differentiating osteoblast is triggered by the release of calcium from intracellular stores followed by a massive influx of this pool of calcium into the nucleus

**Tissue Location**

Expressed in tooth particularly in odontoblast, ameloblast and cementoblast

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.