

**Anti-DMP1 Antibody**  
**Rabbit Anti Rat Polyclonal Antibody**  
**Catalog # ALS17922****Specification**

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**Anti-DMP1 Antibody - Product Information**

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

**Anti-DMP1 Antibody - Additional Information****Gene ID** 1758**Alias Symbol** **DMP1****Other Names**

DMP1, Dentin matrix protein 1, DMP-1, ARHP, ARHR

**Target/Specificity**

Recognizes ~60-130 kDa DMP- 1 of human, mouse, and rat origins.

**Reconstitution & Storage**

Affinity purified

**Precautions**

Anti-DMP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-DMP1 Antibody - Protein Information****Name** DMP1**Function**

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.

**Cellular Location**

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

**Anti-DMP1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-DMP1 Antibody - Images**