

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

Anti-DMP1 Antibody - Product Information

Application	WB, IHC-P
Primary Accession	Q13316
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