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Anti-DMP1 Antibody

Rabbit Anti Rat Polyclonal Antibody
Catalog # ALS17922

Product Information

Application	WB, IHC-P
Primary Accession	Q13316
Reactivity	Rat
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55782
Concentration (mg/ml)	0.5 mg/ml

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.

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

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