

A16832

Leader in Biomolecular Solutions for Life Science



# DMP1 Rabbit pAb

Catalog No.: A16832 **7 Publications**

## Basic Information

### Observed MW

102kDa

### Calculated MW

56kDa

### Category

Polyclonal Antibody

### Applications

WB, ELISA

### Cross-Reactivity

Human, Mouse, Rat

## Background

Dentin matrix acidic phosphoprotein is an extracellular matrix protein and a member of the small integrin binding ligand N-linked glycoprotein family. 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. During osteoblast maturation the protein becomes phosphorylated and is exported to the extracellular matrix, where it orchestrates mineralized matrix formation. Mutations in the gene are known to cause autosomal recessive hypophosphatemia, a disease that manifests as rickets and osteomalacia. The gene structure is conserved in mammals. Two transcript variants encoding different isoforms have been described for this gene.

## Recommended Dilutions

WB 1:100 - 1:500

## Immunogen Information

### Gene ID

1758

### Swiss Prot

Q13316

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human DMP1 (NP\_004398.1).

### Synonyms

ARHP; ARHR; DMP-1; DMP1

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

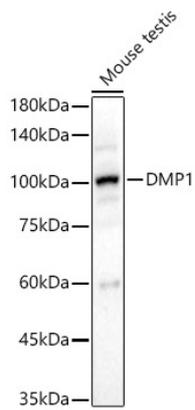
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

## Validation Data

---



Western blot analysis of Mouse testis, using DMP1 antibody (A16832) at 1:500 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.