

Datasheet for ABIN7266559  
**anti-DMP1 antibody (AA 1-100)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	100 µL
Target:	DMP1 (DMTF1)
Binding Specificity:	AA 1-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DMP1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	DMP1 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-100 of human DMP1 (NP_004398.1).
Sequence:	MKISILLMFL WGLSCALPVT RYQNNSEDS EEWKGHQAQA PTPPLESSES SEGSKVSSEE QANEDPSDST QSEEGLSGDD HQYIYRLAGG FSRSTGKGGD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

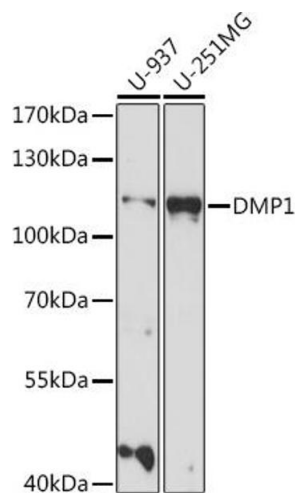
Target:	DMP1 (DMTF1)
Alternative Name:	DMP1 ( <a href="#">DMTF1 Products</a> )
Background:	<p>Dentin matrix acidic phosphoprotein is an extracellular matrix protein and a member of the small integrin binding ligand N-linked glycoprotein family. This protein, which is critical for proper mineralization 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</p> <p>gene.,DMP1,ARHP,ARHR,DMP-1,Signal Transduction,Cell Biology &amp; Developmental Biology,Cytoskeleton,Extracellular Matrix,Bone,Stem Cells,Mesenchymal Stem Cells,DMP1</p>
Molecular Weight:	54kDa/55kDa
Gene ID:	1758
UniProt:	<a href="#">Q13316</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using DMP1 antibody (ABIN7266559) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.