

# DMP1 Rabbit Polyclonal Antibody



CAB11076

## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

68kDa

### Calculated MW:

54kDa/55kDa

### Applications:

WB IF

### Reactivity:

Human, Mouse

## Antibody Information

### Recommended dilutions:

WB 1:500 - 1:2000 IF 1:20 - 1:100

### Source:

Rabbit

### Isotype:

IgG

### Purification:

Affinity purification

## Protein 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.

## Immunogen information

### Gene ID:

1758

### Uniprot

Q13316

### Synonyms:

DMP1; ARHP; ARHR; DMP-1

### Immunogen:

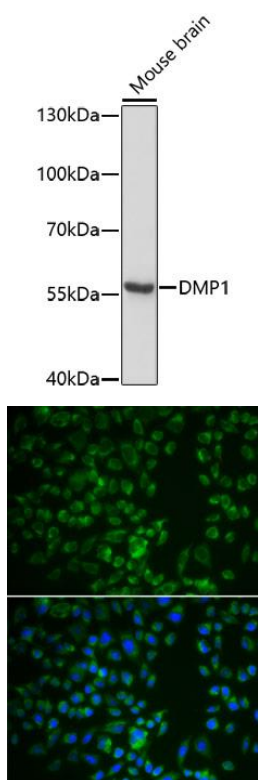
Recombinant fusion protein containing a sequence corresponding to amino acids 254-513 of human DMP1 (NP\_004398.1).

### Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

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Western blot analysis of extracts of mouse brain, using DMP1 antibody (CAB11076) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 5min.

Immunofluorescence analysis of U2OS cells using DMP1 antibody (CAB11076). Blue: DAPI for nuclear staining.