



Human DMP1 blocking peptide (CDBP1023)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-DMP1 antibody
Antigen Description	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.
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name [DMP1 dentin matrix acidic phosphoprotein 1 \[Homo sapiens \]](#)

Official Symbol	DMP1
Synonyms	DMP1; dentin matrix acidic phosphoprotein 1; dentin matrix acidic phosphoprotein; dentin matrix protein 1; ARHP; ARHR; DMP-1;
Entrez Gene ID	1758
mRNA Refseq	NM_001079911
Protein Refseq	NP_001073380
UniProt ID	Q13316
Chromosome Location	4q21
Function	calcium ion binding; extracellular matrix binding; integrin binding;