

Human DMP1, C-His Tag Protein

HA211515



Product name:	Human DMP1, C-His Tag
Species reactivity:	Human
Protein construction description:	A DNA sequence encoding the human DMP1 protein (Q13316-1) (Leu 17-Tyr 513) was expressed with a His tag at the C-terminus.

Background:	Dentin matrix acidic phosphoprotein 1 is a protein that in humans is encoded by the DMP1 gene. Dentin matrix acidic phosphoprotein is an extracellular matrix protein and a member of the small integrin-binding ligand N-linked glycoprotein (SIBLING) family (other members being DSPP, IBSP, MEPE, and SPP1). 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.
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Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	DMP1 (17-513)
Source:	HEK293
Accession:	Q13316-1
Predicted molecular mass:	55.8 kD
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

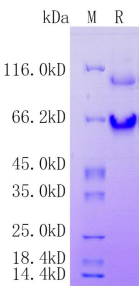


Fig1: Protein on SDS-PAGE under reducing (R) condition.

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