

Mouse DMP-1 ELISA Kit | DMP1 elisa kit

Mouse DMP-1 PicoKine ELISA Kit

CATALOG #
AAA45751

REACTIVITY
Mouse

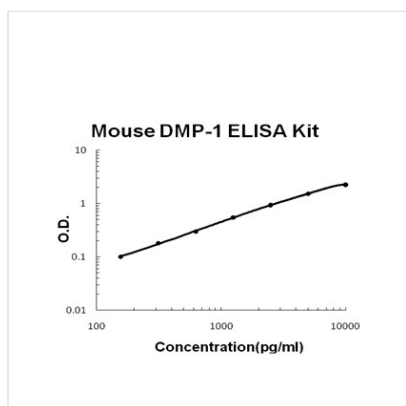
PRODUCT SYNONYMS

DMP-1; Mouse DMP-1 PicoKine ELISA Kit; Dentin matrix acidic phosphoprotein 1; dentin matrix acidic phosphoprotein 1; ARHP; ARHR; AV020965; Dentin matrix protein 1; DENTMAT; DMP 1; Dmp; MGC130441; PP; Serine rich acidic phosphoprotein; DMP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse DMP-1
Sequence Length	503
Samples	Cell culture supernates, serum, plasma (heparin, EDTA) and tissue homogenates
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Mouse DMP-1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for DMP1 elisa kit

Principle of the assay: mouse DMP-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for DMP-1 has been precoated onto 96-well plates. Standards(NSO, L17-Y503) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for DMP-1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse DMP-1 amount of sample captured in plate.

Background: Dentin matrix acidic phosphoprotein 1 is a protein that in humans is encoded by the DMP1 gene. It belongs to the small integrin-binding ligand N-linked glycoprotein(SIBLING) family of secreted phosphoproteins. This gene is mapped to 4q22.1. This protein, which is critical for proper mineralization of bone and dentin, is present in diverse cells of bone and tooth tissues. In undifferentiated osteoblasts, DMP-1 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	341940449
NCBI GeneID	13406
UniProt Accession #	O55188 ; Q3TZB6
Molecular Weight	53,965 Da
NCBI Official Full Name	Dentin matrix acidic phosphoprotein 1
NCBI Official Synonym Full Names	dentin matrix protein 1
NCBI Official Symbol	Dmp1
NCBI Official Synonym Symbols	PP; Dmp; AV020965
NCBI Protein Information	dentin matrix acidic phosphoprotein 1; AG1; DMP-1; serine rich acidic phosphoprotein
UniProt Protein Name	Dentin matrix acidic phosphoprotein 1
UniProt Gene Name	Dmp1
UniProt Synonym Gene Names	Dmp; DMP-1; Dentin matrix protein 1
UniProt Entry Name	DMP1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dmp1-mouse-elisa-kits/dmp-1/45751>