

Mouse DMP-1 AccuSignal ELISA Kit - KOA0766
Code: KOA0766

Size: 1 Kit

Product Description: Mouse DMP-1 AccuSignal ELISA Kit - KOA0766

PhysicalState:

Label	Unconjugated
Gene Name	DMP1
Species Reactivity	Mouse
Storage Condition	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Synonyms	ARHP, ARHR, AV020965, Dentin matrix acidic phosphoprotein 1, Dentin matrix protein 1, DENTMAT, DMP 1, Dmp, MGC130441, PP, Serine rich acidic phosphoprotein
Application Note	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml mouse DMP-1 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, serum, plasma(heparin, EDTA) or tissue homogenates to each empty well. It is recommended that each mouse DMP-1 standard solution and each sample be measured in duplicate.
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.
Purity And Specificity	Natural and recombinant mouse DMP-1. There is no detectable cross-reactivity with other relevant proteins.
ELISA	156pg/ml-10,000pg/ml
Expiration	See kit insert for complete instructions.
Immunogen	Expression system for standard: NSO; Immunogen sequence: L17-Y503
Anti-Coagulant	Heparin Sodium

Related Products

MB-008	10X PBS pH 7.2 (0.2 M Potassium Phosphate 1.5 M Sodium Chloride) - MB-008
MB-012	10X TBS pH 7.5 (1.0 M Tris HCl 1.5 M Sodium Chloride) - MB-012
MB-013	10X TTBS pH 7.5 (1.0 M Tris HCl 1.5 M Sodium Chloride 0.1% (w/v) Tween-20) - MB-013
MB-075-1000	10X PBST (0.2 M Potassium Phosphate 1.5 M Sodium Chloride, 0.5% (v/v) Tween-20, pH 7.2) - MB-075-1000

Related Links

UniProtKB - O55188

<http://www.uniprot.org/uniprot/O55188>

 NCBI - http://www.ncbi.nlm.nih.gov/protein/NP_058059.2

GeneID - 13406

<http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene&term=13406>

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