

Datasheet for KOA0766**Mouse DMP-1 ELISA Kit****Overview**

Description:	Mouse DMP-1 AccuSignal ELISA Kit - KOA0766
Item No.:	KOA0766
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	156 pg/ml - 10,000 pg/ml

Product Details

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.
Synonyms:	ARHP, ARHR, AV020965, Dentin matrix acidic phosphoprotein 1, Dentin matrix protein 1, DENTMAT, DMP 1, Dmp, MGC130441, PP, Serine rich acidic phosphoprotein
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	DMP1
Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: L17-Y503

Purity/Specificity: Natural and recombinant mouse DMP-1. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - O55188](#)
- [NCBI - NP_058059.2](#)
- [GeneID - 13406](#)
- [KOA0766 Protocol](#)

Application Details

Tested Applications: ELISA

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.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant: Heparin Sodium

Shipping & Handling

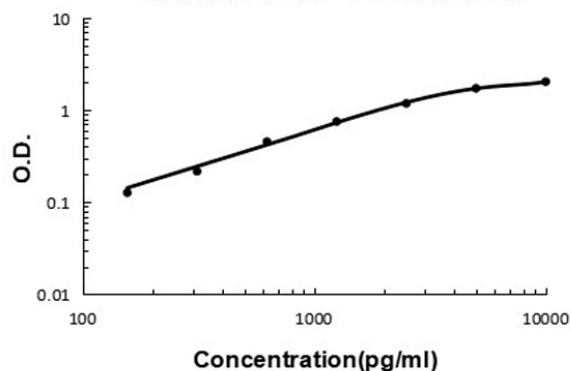
Shipping Condition: Wet Ice

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.

Expiration: See kit insert for complete instructions.

Images

Mouse DMP-1 ELISA Kit



ELISA

Mouse DMP-1 ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.