

Human Dentin Matrix Protein 1 ELISA Kit | DMP1 elisa kit

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CATALOG # AAA97544	REACTIVITY Human
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PRODUCT SYNONYMS

Dentin Matrix Protein 1; Human Dentin Matrix Protein 1 ELISA Kit; DMP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This DMP-1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human DMP-1. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

ADDITIONAL INFORMATION

Related Product Information for DMP1 elisa kit	Principle of the assay: DMP-1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-DMP-1 antibody and an DMP-1-HRP conjugate. The assay sample and buffer are incubated together with DMP-1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the DMP-1 concentration since DMP-1 from samples and DMP-1-HRP conjugate compete for the anti-DMP-1 antibody binding site. Since the number of sites is limited, as more sites are occupied by DMP-1 from the sample, fewer sites are left to bind DMP-1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The DMP-1 concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4758172
NCBI GeneID	1758
NCBI Accession #	NP_004398.1
NCBI GenBank Nucleotide #	NM_004407.3
Molecular Weight	54,115 Da
NCBI Official Full Name	dentin matrix acidic phosphoprotein 1 isoform 1
NCBI Official Synonym Full Names	dentin matrix acidic phosphoprotein 1
NCBI Official Symbol	DMP1

NCBI Official Synonym Symbols	ARHP; ARHR; DMP-1
NCBI Protein Information	dentin matrix acidic phosphoprotein 1; dentin matrix protein 1
UniProt Protein Name	Dentin matrix acidic phosphoprotein 1
UniProt Gene Name	DMP1
UniProt Synonym Gene Names	DMP-1; Dentin matrix protein 1
UniProt Entry Name	DMP1_HUMAN

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://www.aaabiotech.com/dmp1-human-elisa-kits/dentin-matrix-protein-1/97544>