

Human Osteoadherin ELISA Kit | OMD elisa kit

Human Osteoadherin PicoKine ELISA Kit

CATALOG #
AAA125230

REACTIVITY
Human

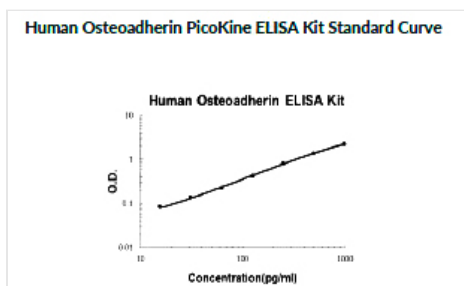
PRODUCT SYNONYMS

Osteoadherin; Human Osteoadherin PicoKine ELISA Kit; Human Osteoadherin; Osteomodulin; Keratan sulfate proteoglycan osteomodulin; KSPG osteomodulin; OSAD; OMD; SLRR2C; UNQ190; PRO216; OMD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human OMD
Sequence Length	421
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Detection Range	15.6pg/ml-1000pg/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 across 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. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OMD elisa kit

Principle of the Assay: The Picokine™ Human OMD Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human OMD with a 96-well strip plate that is pre-coated with antibody specific for OMD. The detection antibody is a biotinylated antibody specific for OMD. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human OMD with immunogen: Expression system for standard: NSO, Immunogen sequence: Q21-E421. The kit is analytically validated with ready to use reagents. To measure Human OMD, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human OMD in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human OMD in the sample.!!Background/Introduction: Osteomodulin (also called osteoadherin or osteoadherin proteoglycan) is a protein that in humans is encoded by the OMD gene. This gene is mapped to 9q22.31. Osteoadherin (OSAD), also known as Osteomodulin, is an extracellular matrix keratan sulfate proteoglycan that belongs to the class II subfamily of small leucine-rich proteoglycans (SLRP). LRR motifs consist of approximately amino acids (aa) with conserved leucine spacing, folded into a structure with one beta -sheet and one alpha -helix. Human OSAD is expressed as an even larger 110 kDa molecule in teeth. OSAD contains eight sulfated tyrosine residues and is distinguished from other class II SLRPs by the presence of an approximately terminal acidic domain. OSAD is expressed by fetal and adult osteoblasts but is not detectable in cartilage or tendon. In dental tissue, OSAD is expressed by odontoblasts and ameloblasts and is involved in the mineralization of bone and teeth. OSAD promotes the adhesion of osteoblasts and odontoblasts to the surrounding matrix, an interaction that is mediated by Integrin alpha V beta 3.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826876
NCBI GeneID	4958
NCBI Accession #	NP_005005
NCBI GenBank Nucleotide #	NP_005005.1
UniProt Accession #	Q99983
NCBI Official Full Name	osteomodulin
NCBI Official Synonym Full Names	osteomodulin
NCBI Official Symbol	OMD
NCBI Official Synonym Symbols	OSAD; SLRR2C
NCBI Protein Information	osteomodulin
UniProt Protein Name	Osteomodulin
UniProt Gene Name	OMD
UniProt Synonym Gene Names	SLRR2C; KSPG osteomodulin; OSAD
UniProt Entry Name	OMD_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.