

Human Osteopontin (OPN) ELISA Kit | OPN elisa kit

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CATALOG #
AAA63540

REACTIVITY
Human

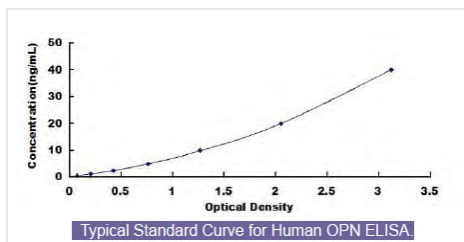
PRODUCT SYNONYMS

Osteopontin (OPN); Human Osteopontin (OPN) ELISA Kit; SPP1; BNSP; BSPI; ETA1; Secreted Phosphoprotein 1; Bone Sialoprotein I; Early T-Lymphocyte Activation 1; Nephropontin; Urinary stone protein; Uropontin; OPN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of OPN. No significant cross-reactivity or interference between OPN and analogues was observed.
Sequence Length	300
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.625-40ng/mL
Sensitivity	< 0.234ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level OPN were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level OPN were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OPN elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of OPN in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to OPN. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to OPN. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain OPN, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of OPN in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4759166
NCBI GeneID	6696
NCBI Accession #	NP_000573.1
NCBI GenBank Nucleotide #	NM_000582.2
UniProt Accession #	P10451; Q15681; Q15682; Q15683; Q4W597; Q567T5; Q8NBK2; Q96IZ1; B2RDA1
Molecular Weight	33,843 Da
NCBI Official Full Name	osteopontin isoform OPN-b
NCBI Official Synonym Full Names	secreted phosphoprotein 1
NCBI Official Symbol	SPP1
NCBI Official Synonym Symbols	OPN; BNSP; BSPI; ETA-1
NCBI Protein Information	osteopontin
UniProt Protein Name	Osteopontin
UniProt Gene Name	SPP1
UniProt Synonym Gene Names	BNSP; OPN; SPP-1

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.