

Human Osteopontin (OPN) ELISA Kit | OPN elisa kit

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CATALOG #
AAA330559

REACTIVITY
Human

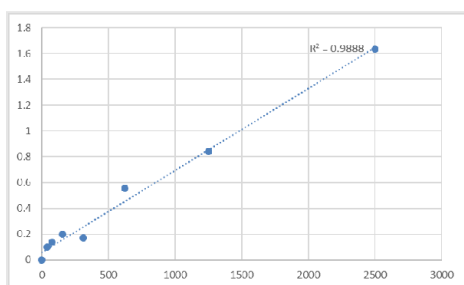
PRODUCT SYNONYMS

Osteopontin (OPN); Human Osteopontin (OPN) ELISA Kit; SPP1; BNSP; BSP1; ETA-1; MGC110940; OPN; SPP1/CALPHA1 fusion; bone sialoprotein I; early T-lymphocyte activation 1; osteopontin; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; s; OPN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Osteopontin (OPN) ELISA Kit has high sensitivity and excellent specificity for detection of Human SPP1. No significant cross-reactivity or interference between Human SPP1 and analogues was observed.
Sequence Length	300
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Osteopontin (OPN) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for OPN elisa kit	Description: This Human Osteopontin (OPN) ELISA Kit employs a two-site sandwich ELISA to quantitate SPP1 in samples. An antibody specific for SPP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SPP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPP1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SPP1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Osteopontin (OPN), is a secreted multifunctional glyco-phosphoprotein with roles in bone metabolism, immune regulation, tissue remodeling, cell survival, and tumor progression. Gene structure and chromosomal location identify OPN as a member of the small integrin-binding ligand N-linked glycoprotein (SIBLING) family that also includes BSP,BMP1,DSPP, ENAM and MEPE. Murine OPN issynthesized as a 294 amino acid (aa) precursor protein with a predicted 16 aa signal peptide and a highly unusual mature protein sequence, containing 68 acidic aa and 23 potential Ser/Thr phosphorylation sites. Although the predicted molecular weight of OPN is 31 kDa,phosphorylation and N- and O-glycosylation may allow it to appear as large as 75 kDa. Variability in post-translational modifications can influence the activity of OPN.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4759166
NCBI GeneID	6696
NCBI Accession #	NP_000573.1
NCBI GenBank Nucleotide #	NP_000573.1
UniProt Accession #	P10451
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
UniProt Entry Name	OSTP_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.