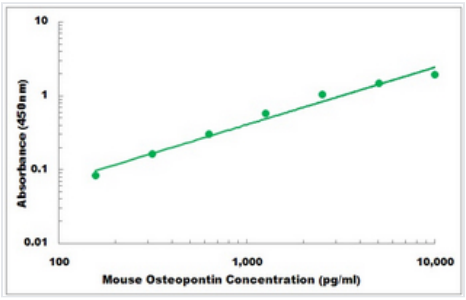
Osteopontin (SPP1) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Osteopontin (SPP1), ELISA Kit
Full Product Name	Mouse Osteopontin ELISA Kit
Product Gene Name	SPP1 elisa kit
Product Synonym Names	BNSP; OPN; Osteopontin; Bone sialoprotein 1; Nephropontin; Secreted phosphoprotein 1; SPP-1; Urinary stone protein; Uropontin
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma, Urine
Detection Range	156 pg/ml - 10000 pg/ml
Sensitivity	10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	32,459 Da
3D Structure	ModBase 3D Structure for P10923
Detection Method	Colorimetric
Applications Tested/Suitable for SPP1 elisa kit	Sandwich ELISA (SE)
Related Product Information for SPP1 elisa kit	Sandwich ELISA for quantitative detection of Mouse Osteopontin concentrations.
Other Notes	Small volumes of SPP1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SPP1 purchase	MBS824595 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Osteopontin (SPP1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing SPP1. The ELISA analytical biochemical technique of the MBS824595 kit is based on SPP1 antibody-SPP1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SPP1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SPP1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of SPP1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPP1. It may not necessarily be applicable to this product.

NCBI GI #	323668271
NCBI GeneID	20750
NCBI Accession #	NP_001191162.1
UniProt Primary Accession #	P10923
UniProt Secondary Accession #	P19008; Q91VH4
UniProt Related Accession #	P10923
GenBank Nucleotide #	NM_001204233.1
NCBI Official Full Name	osteopontin isoform 4
NCBI Official Synonym Full Names	secreted phosphoprotein 1
NCBI Official Symbol	Spp1
NCBI Official Synonym Symbols	OP; 2AR; Bsp; Eta; Opn; Ric; BNSP; BSPI; Opnl; Apl-1; ETA-1; Spp-1
UniProt Protein Name	Osteopontin
UniProt Synonym Protein Names	2AR; Bone sialoprotein 1; Calcium oxalate crystal growth inhibitor protein; Early T-lymphocyte activation 1 protein; Minopontin; Secreted phosphoprotein 1; SPP-1
Protein Family	COMPASS component
UniProt Gene Name	Spp1
UniProt Synonym Gene Names	Eta-1; Op; Spp-1; SPP-1
UniProt Entry Name	OSTP_MOUSE
NCBI Protein Information	osteopontin; minopontin; bone sialoprotein 1; osteopontin-like protein; 44 kDa bone phosphoprotein; early T-lymphocyte activation 1 protein; calcium oxalate crystal growth inhibitor protein
UniProt Comments for SPP1	osteopontin: Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Belongs to the osteopontin family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Cellular Component: extracellular space; cell projection; perinuclear region of cytoplasm; apical part of cell; cytoplasm; extracellular region Molecular Function: extracellular matrix binding; cytokine activity Biological Process: response to organic substance; osteoblast differentiation; neutrophil chemotaxis; ossification; response to vitamin D; biomineral formation; response to steroid hormone stimulus; positive regulation of bone resorption; cell adhesion; negative regulation of apoptosis
Research Articles on SPP1	**1.** The CD44 ligand osteopontin shared a perivascular expression pattern with CD44 and promoted glioma stem cell-like phenotypes.
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