

Datasheet for ABIN6720390

**Osteopontin ELISA Kit****1** Image[Go to Product page](#)

## Overview

Quantity:	1 kit
Target:	Osteopontin (SPP1)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (heparin), Saliva, Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: BNSP, Bone sialoprotein 1, Bone sialoprotein I, BSPI, Early T lymphocyte activation 1, ETA 1, MGC110940, Nephropontin, OPN, Osteopontin, OSTP_HUMAN, Secreted phosphoprotein 1, Secreted phosphoprotein 1 (osteopontin bone sialoprotein I early T lymphocyte activation 1), Secreted phosphoprotein 1 (osteopontin bone sialoprotein), SPP-1, SPP1, Urinary stone protein, Uropontin</p> <p>Background: Osteopontin(OPN) also called urinary stone protein, secreted phosphoprotein 1(SPP1), bone sialoprotein, and early T lymphocyte activation 1(ETA1). Osteopontin is a phosphorylated glycoprotein secreted to the mineralizing extracellular matrix by osteoblasts</p>

## Product Details

during bone development. It is believed to facilitate the attachment of osteoblasts and osteoclasts to the extracellular matrix, allowing them to perform their respective functions during osteogenesis. Osteopontin is presumably involved in bone formation as bone matrix. The deduced protein sequence reveals a 317-amino acid protein(34,982 Da) containing a 16-amino acid hydrophobic signal sequence and a 33,352-Da protein destined to undergo extensive post-translational modifications before being secreted from the cell. The gene is located on human chromosome 4. The standard product used in this kit is recombinant human OPN, consisting of 17-314 amino acid sequence with the molecular mass of 32.9KDa. As a result of glycosylation, the molecular mass is 60-65KDa.

Gene Name: SPP1

Production: Natural and recombinant human OPN. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: E22-L401

## Target Details

Target:	Osteopontin (SPP1)
Alternative Name:	OPN ( <a href="#">SPP1 Products</a> )
Gene ID:	6696
NCBI Accession:	<a href="#">NP_000573</a>
UniProt:	<a href="#">P10451</a>
Pathways:	<a href="#">Regulation of Cell Size</a>

## Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human OPN standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin), saliva or urine to each empty well. It is recommended that each human OPN standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 156pg/mL-10000pg/mL</p>
Sample Volume:	100 µL

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images

