

Datasheet for ABIN6720351

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

Overview

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

Product Details

Purpose:	Mouse OPN Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant mouse OPN. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	• Antibody-coated 96-well plate • Target Protein Standard • Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target:	Osteopontin (SPP1)
Alternative Name:	OPN (SPP1 Products)
Background:	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 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 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 stone formation as stone 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 mouse OPN, consisting of 284 amino acid sequence with the molecular mass of 31.5KDa. As a result of glycosylation, the molecular mass is 65KDa.
Gene ID:	20750
NCBI Accession:	NP_001191131
UniProt:	Q3UBR1
Pathways:	Regulation of Cell Size

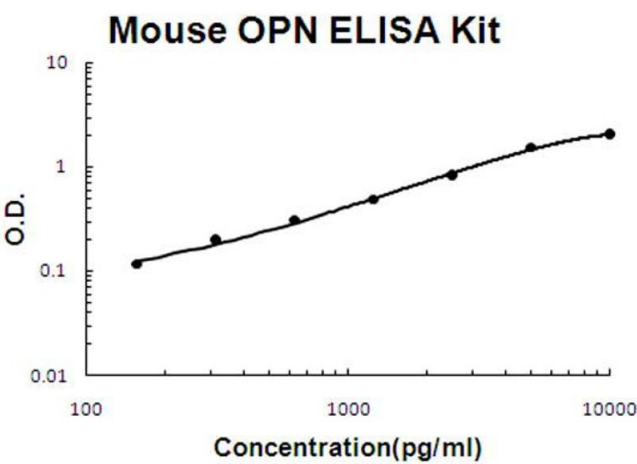
Application Details

Application Notes:	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 mouse 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 mouse cell culture supernates, serum, plasma(heparin, EDTA) or urine to each empty well. It is recommended that each mouse OPN standard solution and each sample be measured in duplicate.
Comment:	Standard: Expression system for standard: NSO, Immunogen sequence: L17-N294
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	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.
Expiry Date:	12 months

Images



ELISA

Image 1. Mouse OPN Accusignal ELISA Kit Mouse OPN Accusignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <10pg/ml.