

# Recombinant Human Osteopontin/SPP-1 Protein

Catalog No.: RP00989    Recombinant    1 Publications

## Sequence Information

Species	Gene ID	Swiss Prot
Human	6696	P10451-5

### Tags

C-His

### Synonyms

BNSP;BSPI;ETA-1;OPN;Osteopontin;SPP1

## Background

## Basic Information

### Description

Recombinant Human Osteopontin/SPP-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile17-Asn300) of human Osteopontin (Accession #NP\_000573.1) fused with a 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human SPP1 Protein at 1 µg/mL (100 µL/well) can bind Osteopontin Rabbit mAb with a linear range of 0.976-11.58 ng/mL.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Product Information

### Source

HEK293 cells

### Purification

≥ 85 % as determined by SDS-PAGE.

### Calculated MW

32.97 kDa

### Observed MW

55 kDa

### Endotoxin

< 0.1 EU/µg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

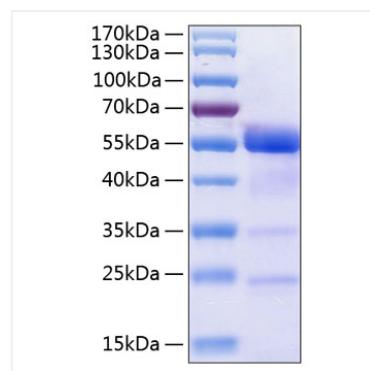
### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

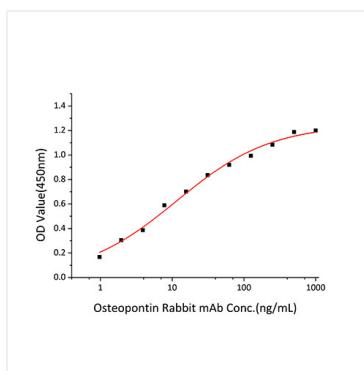
## Contact

	400-999-6126
	cn.market@abclonal.com.cn
	<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

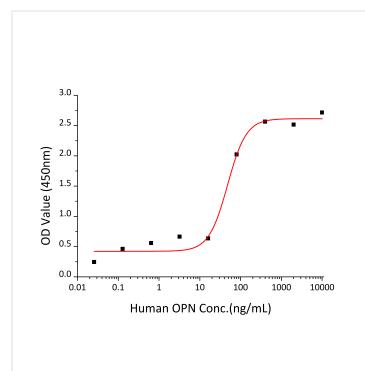
## Validation Data



Recombinant Human Osteopontin/SPP-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human SPP1 Protein at 1 $\mu$ g/mL (100  $\mu$ L/well) can bind Osteopontin Rabbit mAb with a linear range of 0.976-11.58ng/mL.



Recombinant Human Osteopontin/SPP-1 immobilized protein to support the adhesion of B16 cells. When  $5 \times 10^4$  cells/well are added to a Recombinant Human (rh) Osteopontin/OPN coated plate, cell adhesion is enhanced in a dose-dependent manner after 1 hour incubation at 37 °C. The ED<sub>50</sub> for this effect is 23.9-95.7 ng/mL.