

Recombinant Human Osteopontin/SPP-1 Protein

Catalog No.: RP00989

Sequence Information

Species **Gene ID**
Human 6696

Swiss Prot **Tags**
P10451-5 C-His

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 85 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
32.97 kDa 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.

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.

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

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

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

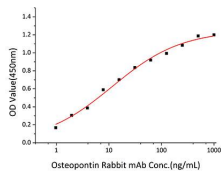
Contact

☎ | 400-999-6126

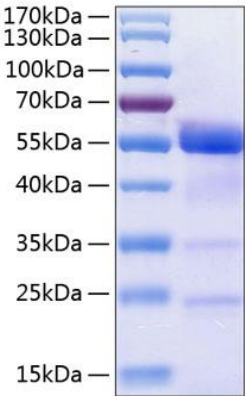
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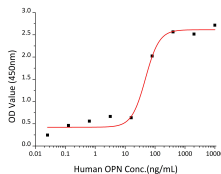
Validation Data



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



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



Recombinant Human Osteopontin/SPP-1 immobilized protein to support the adhesion of B16 cells. When 5×10^4 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_{50} for this effect is 23.9-95.7 ng/mL.