

## Active Recombinant Mouse Spp1 protein, His-tagged

Cat. No. SPP1-465M    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Spp1 protein(Leu17-Asn294), fused with C-terminal His tag, was expressed in HEK293.                                                                                                                                                           |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 17-294 aa                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | Measured by the ability of the immobilized protein to support the adhesion of B16 cells. When $5 \times 10^4$ cells/well are added to a Recombinant Mouse (rm) Osteopontin/OPN coated plate, cell adhesion is enhanced in a dose-dependent manner after 1 hour. |
| <b>Molecular Mass</b>   | 31.59 kDa                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | < 1 EU/µg of the protein by LAL method.                                                                                                                                                                                                                         |
| <b>Purity</b>           | ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.                                                                                                                                                                                                 |
| <b>Storage</b>          | 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.                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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.

**GENE INFORMATION**

**Gene Name** [Spp1 secreted phosphoprotein 1 \[ Mus musculus \]](#)

**Official Symbol** [Spp1](#)

**Synonyms**

SPP1; secreted phosphoprotein 1; osteopontin; minopontin; bone sialoprotein 1; osteopontin-like protein; 44 kDa bone phosphoprotein; early T-lymphocyte activation 1 protein; calcium oxalate crystal growth inhibitor protein; OP; 2AR; Bsp; Eta; Opn; Ric; BNSP; BSPI; Opnl; Apl-1; ETA-1; Spp-1;

**Gene ID** [20750](#)

**mRNA Refseq** [NM\\_001204201](#)

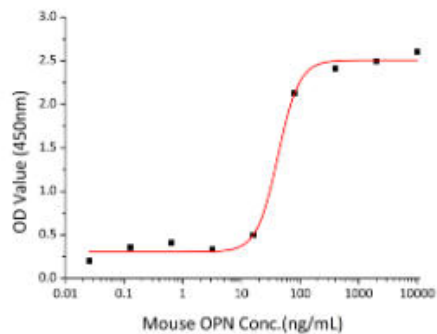
**Protein Refseq** [NP\\_001191130](#)

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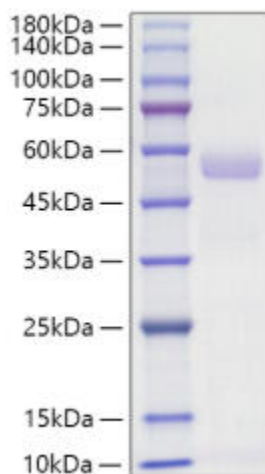
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## Activity



## SDS-PAGE



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