

## Recombinant Rat Spp1 protein, His-tagged

**Cat. No.** Spp1-571R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Spp1 (P08721) aa. (Leu17~Asn317) fused with His tag was produced in HEK293F cells.               |
| <b>Species</b>          | Rat                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                           |
| <b>ProteinLength</b>    | Leu17~Asn317                                                                                                     |
| <b>Description</b>      | The sialoprotein that binds osteosarcoma cells; may play a role in osteoclast cell function.                     |
| <b>Form</b>             | Freeze-dried powder                                                                                              |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 34.9kDa; Accurate Molecular Mass: 60kDa as determined by SDS-PAGE reducing conditions. |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                    |
| <b>Purity</b>           | >95%                                                                                                             |
| <b>Characteristic</b>   | Isoelectric point is 4.3.                                                                                        |
| <b>Applications</b>     | Cell culture; Activity Assays; In vivo assays.                                                                   |

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|                       |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.                                                                                                                                                                                                                            |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL.<br>Do not vortex                                                                                                                                                                                                                                 |

## GENE INFORMATION

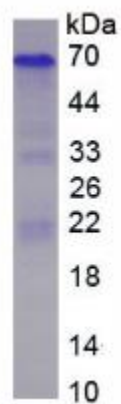
|                        |                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Spp1 secreted phosphoprotein 1 [ Rattus norvegicus (Norway rat) ]</a>                                           |
| <b>Official Symbol</b> | <a href="#">Spp1</a>                                                                                                        |
| <b>Synonyms</b>        | Spp1; secreted phosphoprotein 1; OSP; osteopontin; SPP-1; Sialoprotein (osteopontin); bone sialoprotein 1; osteopontin-like |
| <b>Gene ID</b>         | <a href="#">25353</a>                                                                                                       |
| <b>mRNA Refseq</b>     | <a href="#">NM_012881.2</a>                                                                                                 |
| <b>Protein Refseq</b>  | <a href="#">NP_037013.2</a>                                                                                                 |
| <b>UniProt ID</b>      | <a href="#">P08721</a>                                                                                                      |

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## SDS-PAGE



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