Recombinant Pig SPP1 Protein, His-tagged

Cat. No. SPP1-1164P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pig SPP1 Protein (Thr37-Asn303) with His tag was expressed in E. coli.
Species	Pig
Source	E.coli
ProteinLength	Thr37-Asn303
Description	The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.4 kDa; Accurate Molecular Mass: 60 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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 centigrade for

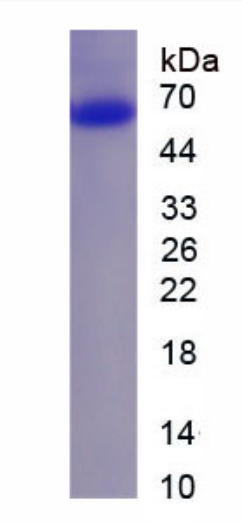
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SPP1 secreted phosphoprotein 1 [Sus scrofa (pig)]
Official Symbol	SPP1
Synonyms	SPP1; secreted phosphoprotein 1; OPN; osteopontin; OC-1; SPP-1; bone sialoprotein 1; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1)
Gene ID	397087
mRNA Refseq	NM_214023
Protein Refseq	NP_999188
UniProt ID	P14287

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