

Product datasheet for TP310592M

OriGene Technologies, Inc.

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Osteopontin (SPP1) (NM_001040060) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of human secreted phosphoprotein 1 (SPP1), transcript variant

3, with C-terminal MYC/DDK tag, secretory expressed in HEK293 cells, 100 µg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC210592 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MRIAVICFCLLGITCAIPVKQADSGSSEEKQNAVSSEETNDFKQETLPSKSNESHDHMDDMDDEDDDDHV DSQDSIDSNDSDDVDDTDDSHQSDESHHSDESDELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVVYGL RSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDDQSAET HSHKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELD

SASSEVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 30.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Bioactivity: Cell treatment (PMID: 29959420)

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 001035149





Locus ID: 6696

UniProt ID: <u>P10451</u>, <u>A0A024RDJ0</u>

RefSeq Size: 1560 Cytogenetics: 4q22.1 RefSeq ORF: 861

Synonyms: BNSP; BSPI; ETA-1; OPN

Summary: 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

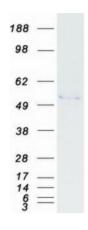
affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding

different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: ECM-receptor interaction, Focal adhesion, Toll-like receptor signaling pathway

Product images:



Coomassie blue staining of purified SPP1 protein (Cat# [TP310592]). The protein was produced from HEK293T cells transfected with SPP1 cDNA clone (Cat# [RC210592]) using MegaTran 2.0 (Cat# [TT210002]).