

Product datasheet for PH310592

OriGene Technologies, Inc.

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Osteopontin (SPP1) (NM_001040060) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: SPP1 MS Standard C13 and N15-labeled recombinant protein (NP_001035149)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

RC210592

or AA Sequence: Predicted MW:

32.4 kDa

Protein Sequence: >RC210592 protein sequence

Red=Cloning site Green=Tags(s)

MRIAVICFCLLGITCAIPVKQADSGSSEEKQNAVSSEETNDFKQETLPSKSNESHDHMDDMDDEDDDDHV DSQDSIDSNDSDDVDDTDDSHQSDESHHSDESDELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVVYGL RSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDDQSAET HSHKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELD

SASSEVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

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

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

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

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

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 001035149

RefSeq Size: 1560 RefSeq ORF: 861

Synonyms: BNSP; BSPI; ETA-1; OPN

Locus ID: 6696



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

Cytogenetics: 4q22.1

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

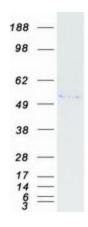
affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding

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]).