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Datasheet for ABIN7275648

Osteopontin Protein (AA 17-294) (His tag)

2 Images

Overview

Quantity:	100 µg
Target:	Osteopontin (SPP1)
Protein Characteristics:	AA 17-294
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Osteopontin protein is labelled with His tag.

Product Details

Purpose:	Mouse SPP1/OPN Protein
Sequence:	Leu17-Asn294
Characteristics:	Recombinant Mouse SPP1/OPN Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu17-Asn294.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	Osteopontin (SPP1)
Alternative Name:	SPP1 (SPP1 Products)

Target Details

Background: Secreted phosphoprotein 1 (SPP1) expression in TAMs isolated from lung adenocarcinoma tissues and PMA-treated THP-1 cells were measured. Macrophage polarization was identified by flow cytometric analysis. Cell migration and apoptosis were assessed by Transwell migration assays and flow cytometric analysis, respectively. SPP1 is highly expressed in tumor tissues and TAMs isolated from patients with an advanced TNM stage, and also in PMA-treated THP-1 cells.

Molecular Weight: 31.8 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.

UniProt: [P10923](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

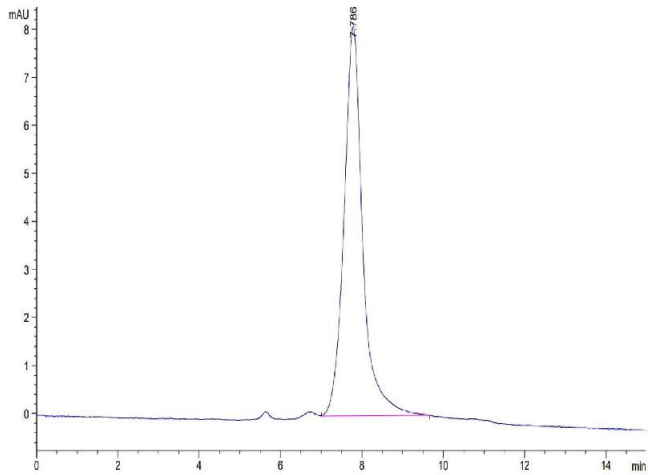
Reconstitution: Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: -20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Expiry Date: 12 months



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Mouse SPP1 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. Mouse SPP1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .