

Datasheet for ABIN2181569

Osteopontin Protein (AA 17-300) (His tag)



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1 Image

Overview

Quantity:	100 µg
Target:	Osteopontin (SPP1)
Protein Characteristics:	AA 17-300
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Osteopontin protein is labelled with His tag.

Product Details

Sequence:	AA 17-300
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 33 kDa. The protein migrates as 60-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>80 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

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

Target Details

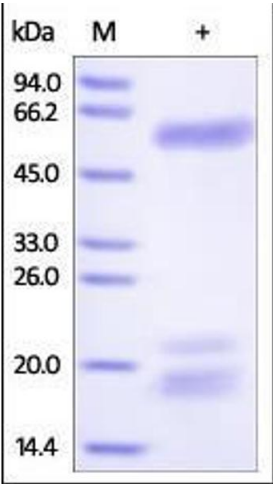
Background:	<p>Osteopontin (OPN) is also known as Secreted phosphoprotein 1 (SPP1), Bone sialoprotein 1, Nephropontin, Urinary stone protein, Uropontin, BNSP, which belongs to the osteopontin family. OPN / SPP1 is a highly negatively charged, extracellular matrix protein that lacks an extensive secondary structure. Full length OPN (OPN-FL) can be modified by thrombin cleavage, which exposes a cryptic sequence, SVVYGLR on the cleaved form of the protein known as OPN-R. Osteopontin / SPP-1 is biosynthesized by a variety of tissue types. OPN is the ligand for integrin alpha-V/beta-3. OPN / SPP1 binds tightly to hydroxyapatite and appears to form an integral part of the mineralized matrix. OPN / SPP1 probably important to cell-matrix interaction. OPN / SPP1 acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity.</p>
Molecular Weight:	33.0 kDa
Pathways:	Regulation of Cell Size

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



SDS-PAGE

Image 1. Human Osteopontin, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 80%.