

Datasheet for ABIN7275639

SPARC Protein (AA 18-303) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SPARC
Protein Characteristics:	AA 18-303
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPARC protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus SPARC Protein
Sequence:	Ala18-Ile303
Characteristics:	Recombinant Cynomolgus SPARC Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala18-Ile303.
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.
Biological Activity Comment:	Immobilized Cynomolgus SPARC, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-SPARC Antibody, hFc Tag with the EC50 of 0.11 µg/ml determined by ELISA. See testing image for detail.

Target Details

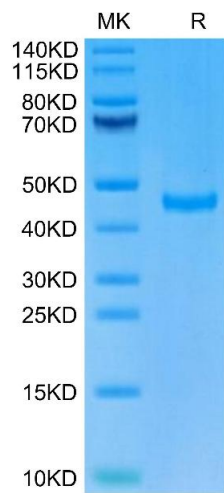
Target:	SPARC
Alternative Name:	SPARC (SPARC Products)
Background:	Secreted protein acidic and rich in cysteine (SPARC/osteonectin/BM40) is one of the most abundant non-collagenous protein expressed in mineralized tissues. The capacity of SPARC to influence pathways involved in extracellular matrix assembly such as procollagen processing and collagen fibril formation as well as the capacity to influence osteoblast differentiation and osteoclast activity will be addressed.
Molecular Weight:	33.82 kDa. Due to glycosylation, the protein migrates to 43-48 kDa based on Tris-Bis PAGE result.
UniProt:	G7P8R2
Pathways:	Autophagy

Application Details

Restrictions:	For Research Use only
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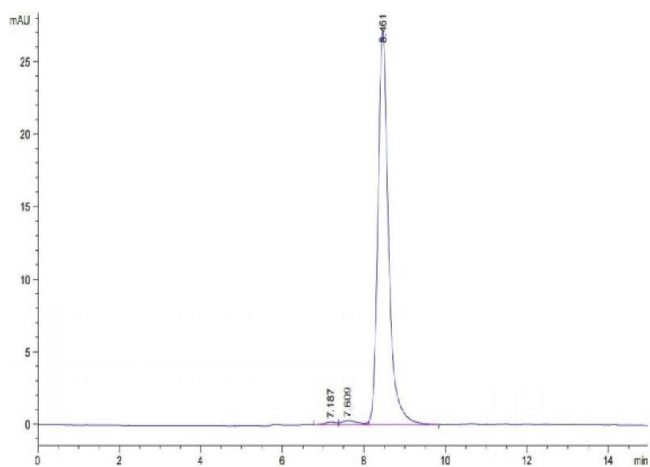
Handling

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



SDS-PAGE

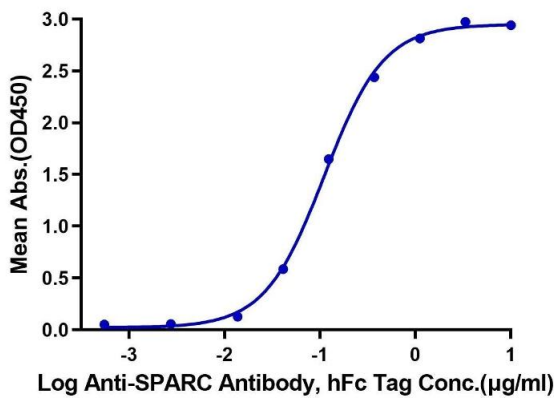
Image 1. Cynomolgus SPARC on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Cynomolgus SPARC is greater than 95 % as determined by SEC-HPLC.

Cynomolgus SPARC, His Tag ELISA
0.1µg Cynomolgus SPARC, His Tag Per Well



ELISA

Image 3. Immobilized Cynomolgus SPARC, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-SPARC Antibody, hFc Tag with the EC50 of 0.11 µg/mL determined by ELISA.