

Datasheet for ABIN7275640

**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:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPARC protein is labelled with His tag.

## Product Details

Purpose:	Human SPARC Protein
Sequence:	Ala18-Ile303
Characteristics:	Recombinant Human 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 Human SPARC, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-SPARC Antibody, hFc Tag with the EC50 of 66.8ng/ml determined by ELISA. See testing image for detail.

## Target Details

Target:	SPARC
Alternative Name:	SPARC ( <a href="#">SPARC Products</a> )
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:	33.8 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">P09486</a>
Pathways:	<a href="#">Autophagy</a>

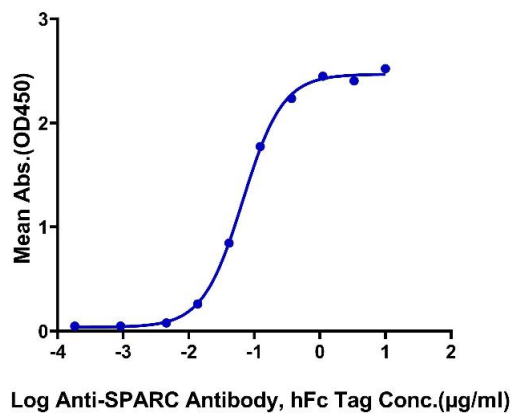
## Application Details

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

Human SPARC, His Tag ELISA  
0.05µg Human SPARC, His Tag Per Well

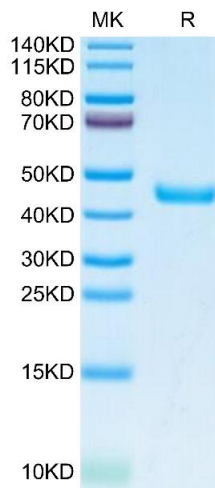
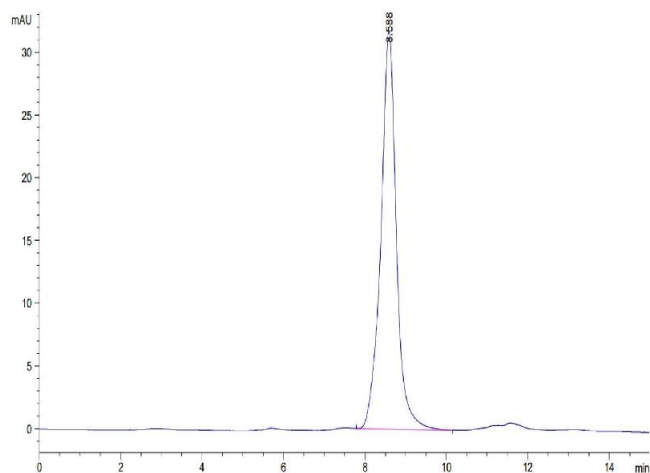


ELISA

**Image 1.** Immobilized Human SPARC, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-SPARC Antibody, hFc Tag with the EC<sub>50</sub> of 66.8 ng/mL determined by ELISA.

Size-exclusion chromatography-High Pressure Liquid Chromatography

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



SDS-PAGE

**Image 3.** Human SPARC on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .