

# Recombinant Human SPARC protein ab151903

### Description

<b>Product name</b>	Recombinant Human SPARC protein
<b>Purity</b>	> 95 % SDS-PAGE. Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<b><u>P09486</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	APQQEALPDETEVVEETVAEVTEVSVGANPVQVEVGEF DDGAEETEEVV AENPCQNHCKHKGKVCELDENNTPMCVCQDPTSCPAPI GEFEKVCSNDNK TFDSSCHFFATKCTLEGTKKGHKLHLDYIGPCKYIPPC LDS ELTEFPLRM RDWLKNVLVTLYERDEDNNLLTEKQKLRVKKIHENEKRL AGDHPVELLA RDFEKNYNMYIFPVHWQFGQLDQHPIDGYLSHTELAPLRA PLIPMEHCTT RFFETCDLDNDKYALDEWAGCFGIKQKDKDLVVDHHH HHH
<b>Predicted molecular weight</b>	34 kDa including tags
<b>Amino acids</b>	18 to 303
<b>Tags</b>	His tag C-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab151903** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
	HPLC

**Form** Lyophilized

## Preparation and Storage

<b>Stability and Storage</b>	<p>Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term.</p> <p>pH: 7.20</p> <p>Constituents: 99% Phosphate Buffer, 0.88% Sodium chloride</p>
<b>Reconstitution</b>	<p>Lyophilized from a 0.2 µM filtered solution. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in 1X PBS. It is not recommended to reconstitute to a concentration less than 100 µg/ml.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>

## General Info

<b>Function</b>	<p>Appears to regulate cell growth through interactions with the extracellular matrix and cytokines. Binds calcium and copper, several types of collagen, albumin, thrombospondin, PDGF and cell membranes. There are two calcium binding sites; an acidic domain that binds 5 to 8 Ca(2+) with a low affinity and an EF-hand loop that binds a Ca(2+) ion with a high affinity.</p>
<b>Sequence similarities</b>	<p>Belongs to the SPARC family.</p> <p>Contains 1 EF-hand domain.</p> <p>Contains 1 follistatin-like domain.</p> <p>Contains 1 Kazal-like domain.</p>
<b>Developmental stage</b>	<p>Expressed at high levels in tissues undergoing morphogenesis, remodeling and wound repair.</p>
<b>Cellular localization</b>	<p>Secreted &gt; extracellular space &gt; extracellular matrix &gt; basement membrane. In or around the basement membrane.</p>

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors

