

**SPARC Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6743B****Specification**

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**SPARC Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">P09486</a>
Other Accession	<a href="#">P36378</a> , <a href="#">P16975</a> , <a href="#">P36233</a> , <a href="#">P20112</a> , <a href="#">P07214</a> , <a href="#">P36377</a> , <a href="#">P13213</a>
Reactivity	Human
Predicted	Bovine, Chicken, Mouse, Pig, Rabbit, Rat, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34632
Antigen Region	224-251

**SPARC Antibody (C-term) - Additional Information****Gene ID** 6678**Other Names**

SPARC, Basement-membrane protein 40, BM-40, Osteonectin, ON, Secreted protein acidic and rich in cysteine, SPARC, ON

**Target/Specificity**

This SPARC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 224-251 amino acids from the C-terminal region of human SPARC.

**Dilution**WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SPARC Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SPARC Antibody (C-term) - Protein Information**

**Name** SPARC

**Synonyms** ON

**Function** 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.

**Cellular Location**

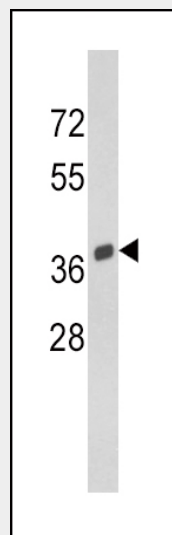
Secreted, extracellular space, extracellular matrix, basement membrane. Note=In or around the basement membrane

**SPARC Antibody (C-term) - Protocols**

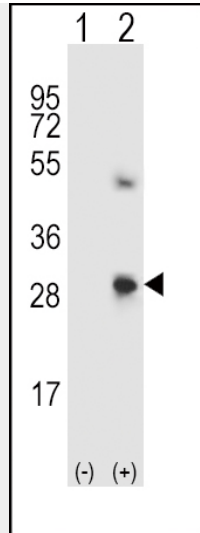
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

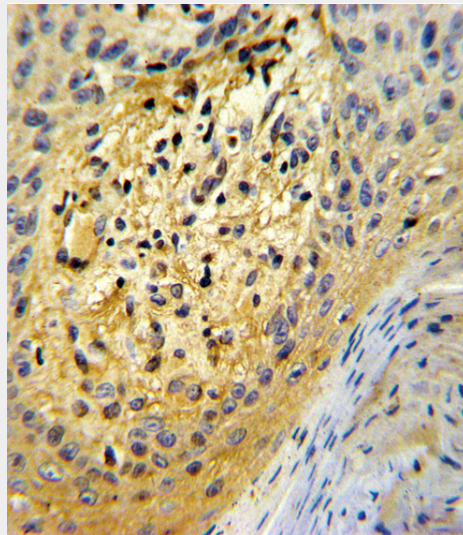
**SPARC Antibody (C-term) - Images**



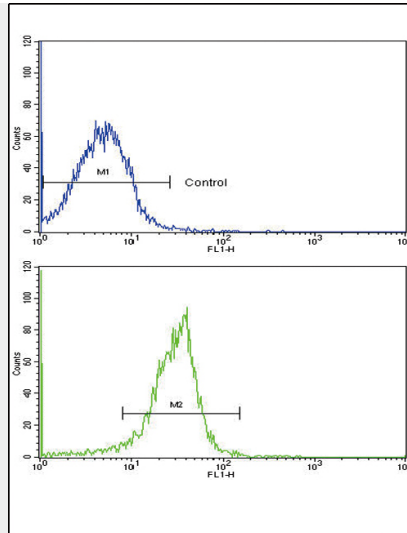
Western blot analysis of SPARC Antibody (C-term) (Cat. #AP6743b) in Y79 cell line lysates (35ug/lane). SPARC (arrow) was detected using the purified Pab.



Western blot analysis of SPARC (arrow) using rabbit polyclonal SPARC Antibody (C-term) (Cat. #AP6743b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SPARC gene.



Formalin-fixed and paraffin-embedded human skin tissue reacted with SPARC Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of wild cells using SPARC Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **SPARC Antibody (C-term) - Background**

Secreted protein acidic and rich in cysteine/osteonectin/BM40, or SPARC, is a matrix-associated protein that elicits changes in cell shape, inhibits cell-cycle progression, and influences the synthesis of extracellular matrix (ECM).

#### **SPARC Antibody (C-term) - References**

Said,N., *Oncogene* 28 (39), 3487-3498 (2009)  
Maloney,S.C., *Anticancer Res.* 29 (8), 3059-3064 (2009)