10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

SPARC Antibody (C-term) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	P09486
Other Accession	P36378, P16975, P36233, P20112, P07214, P36377, P13213
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
FC~~1:10~50
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

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.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.

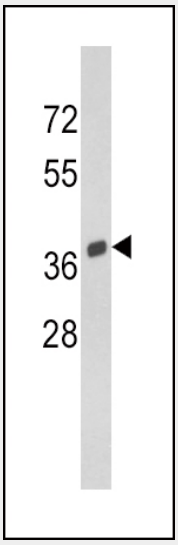
Cellular Location
Secreted, extracellular space, extracellular matrix, basement membrane. Note=In or around the basement membrane

SPARC Antibody (C-term) - Protocols

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

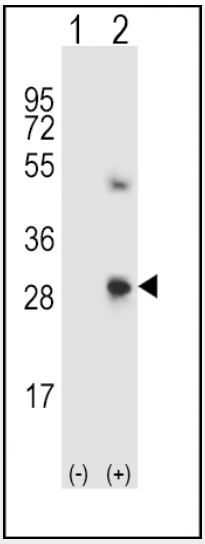
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SPARC Antibody (C-term) - Images

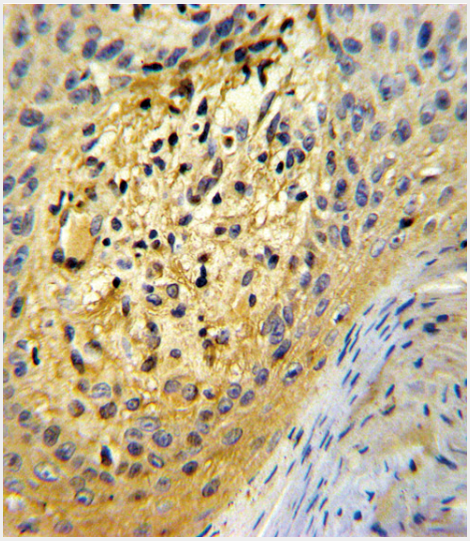


Western blot analysis of SPARC Antibody (C-term) (Cat. #AP6743b) in Y79 cell line lysates (35ug/lane). SPARC (arrow) was detected using the purified Pab.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

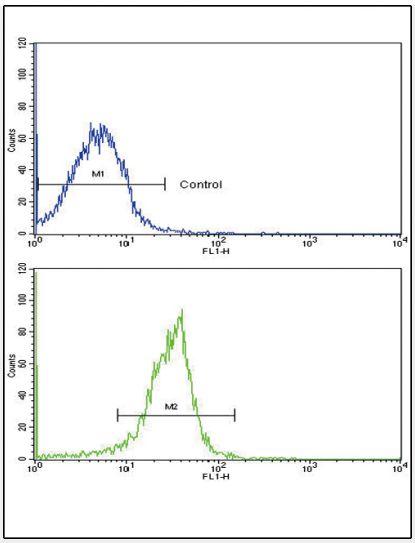


Western blot analysis of SPARC (arrow) using rabbit polyclonal SPARC Antibody (C-term) (Cat. #AP6743b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SPARC gene.



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.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Flow cytometric analysis of widr 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)