

# SPARC Antibody(C-term) Antibody(Ascites)

Mouse Monoclonal Antibody (Mab)

Catalog # AM2175a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P09486</a>
<b>Other Accession</b>	<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> , <a href="#">NP_003109</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Mouse, Rat, Rabbit, Pig, Chicken, Bovine, Xenopus
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone Names</b>	664CT7.3.1
<b>Calculated MW</b>	34632
<b>Antigen Region</b>	224-251

## Additional Information

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<b>Gene ID</b>	6678
<b>Other Names</b>	SPARC, Basement-membrane protein 40, BM-40, Osteonectin, ON, Secreted protein acidic and rich in cysteine, SPARC, ON
<b>Target/Specificity</b>	This SPARC antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 224-251 amino acids from the C-terminal region of human SPARC.
<b>Dilution</b>	WB~~1:500~1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
<b>Storage</b>	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.
<b>Precautions</b>	SPARC Antibody(C-term) Antibody(Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SPARC
<b>Synonyms</b>	ON
<b>Function</b>	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

## Background

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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) (Bradshaw et al., 2003 [PubMed 12721366]).

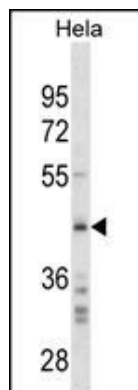
## References

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Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Howard, C., et al. Histol. Histopathol. 25(9):1163-1169(2010)  
Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :  
Liang, J.F., et al. J. Exp. Clin. Cancer Res. 29, 71 (2010) :

## Images

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SPARC Antibody (C-term)(Ascites)(Cat. #AM2175a)  
western blot analysis in HeLa cell line lysates  
(35µg/lane). This demonstrates the SPARC antibody  
detected the SPARC protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.