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SPARC Antibody(C-term) Antibody(Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2175a

Product Information

Application	WB, E
Primary Accession	P09486
Other Accession	P36378, P16975, P36233, P20112, P07214, P36377, P13213, NP_003109
Reactivity	Human
Predicted	Mouse, Rat, Rabbit, Pig, Chicken, Bovine, Xenopus, Canine
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	664CT7.3.1
Calculated MW	34632
Antigen Region	224-251

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 mice immunized with a KLH conjugated synthetic peptide between 224-251 amino acids from the C-terminal region of human SPARC.
Dilution	WB~~1:500~1000 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
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) Antibody(Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

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

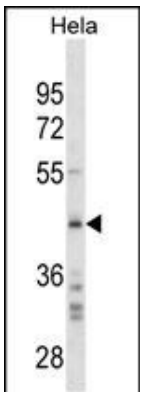
Background

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

References

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



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'.