For Research Use Only

SPARC Monoclonal antibody

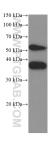
Catalog Number:66426-1-lg 7 Publications

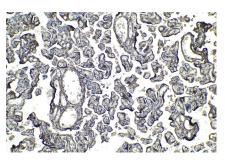
Antibodies | ELISA kits | Proteins www.ptglab.com

	Catalog Number: 66426-1-lg	GenBank Accession Number: BC004974	Purification Method: Protein A purification	
	Size:	GenelD (NCBI):	CloneNo.:	
	150ul , Concentration: 1200 ug/ml by	6678	1A2C1 Recommended Dilutions: WB 1:2000-1:10000	
	Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;			
	Source: Mouse	Full Name: IHC 1:1000-1:4000 secreted protein, acidic, cysteine-rich IF/ICC 1:400-1:1600		
	Isotype: IgG2a Immunogen Catalog Number: AG7390	(osteonectin)		
		Calculated MW: 35 kDa		
		Observed MW: 38 kDa, 52 kDa		
Applications	Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : A375 cells, human testis tissue, NCCIT cell IHC : human placenta tissue,		
	Cited Applications:			
	WB, IHC			
	Species Specificity: human, rat	IF/ICC : C6 cells,		
	Cited Species: human, mouse			
	Note-IHC: suggested antigen re TE buffer pH 9.0; (*) Alternativ retrieval may be performed wa buffer pH 6.0	vely, antigen		
Background Information	SPARC, also known as ON (Osteonectin) or BM-40 (Basement-membrane protein 40), is an extracellular glycoprotein with the calculated molecular mass of 35 kDa and the apparent molecular mass of 40-43 kDa and 50 kDa (PMID: 7495300, 12365801). SPARC belongs to a group of matricellular proteins defined as secreted components that do not contribute directly to the formation of structural elements but serve to modulate cell-matrix interactions and cellular functions (PMID: 7542656; 12231357). SPARC is expressed at high levels in bone tissue, is distributed widely in many other tissues and cell types, and is associated generally with tissues undergoing morphogenesis, remodeling and wound repair (PMID: 10567433). It elicits changes in cell shape, inhibits cell-cycle progression, and influences the synthesis of extracellular matrix (PMID: 12721366). Altered expression of SPARC has been reported ir a variety of cancers, which include breast, ovarian, colorectal, and pancreatic cancer as well as melanoma and glioblastomas (PMID: 18849185).			
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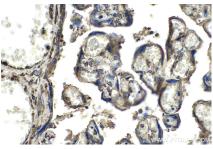
Selected Validation Data

for 1.5 hours.

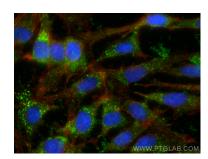




Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66426-1-1g (SPARC antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). A375 cells were subjected to SDS PAGE followed by western blot with 66426-1-1g (SPARC Antibody) at dilution of 1:5000 incubated at room temperature



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66426-1-1g (SPARC antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed C6 cells using SPARC antibody (66426-1-lg, Clone: 1A2C1) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).