SPARC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPARC, Polyclonal Antibody
Full Product Name	SPARC Polyclonal Antibody
Product Gene Name	anti-SPARC antibody
Product Synonym Names	SPARC; ON; SPARC; Basement-membrane protein 40; BM-40; Osteonectin; ON; Secreted protein acidic and rich in cysteine
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	SPARC Polyclonal Antibody detects endogenous levels of SPARC protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	34,632 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (151040657..151066615, complement). Location: 5q31.3-q32
OMIM	182120
3D Structure	ModBase 3D Structure for P09486
Immunogen	Synthesized peptide derived from the Internal region of human SPARC.
Product Categories/Family for anti-SPARC antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SPARC antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SPARC antibody	WB: 1:500-1:2000 ELISA: 1:20000
Related Product Information for anti-SPARC antibody	MBS8593188 is an antibody targeting SPARC. Also known as SPARC Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SPARC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPARC. It may not necessarily be applicable to this product.

NCBI GI #	338325
NCBI GeneID	6678

NCBI Accession #	AAA60993.1
UniProt Primary Accession #	P09486
UniProt Secondary Accession #	Q6IBK4; D3DQH9
UniProt Related Accession #	P09486
NCBI Official Full Name	osteonectin
NCBI Official Synonym Full Names	secreted protein, acidic, cysteine-rich (osteonectin)
NCBI Official Symbol	SPARC
NCBI Official Synonym Symbols	ON
UniProt Protein Name	SPARC
UniProt Synonym Protein Names	Basement-membrane protein 40; BM-40; Osteonectin; ON; Secreted protein acidic and rich in cysteine
Protein Family	SPARC
UniProt Gene Name	SPARC
UniProt Synonym Gene Names	ON; BM-40; ON
UniProt Entry Name	SPRC_HUMAN
NCBI Protein Information	SPARC; BM-40; osteonectin; cysteine-rich protein; basement-membrane protein 40; secreted protein acidic and rich in cysteine
NCBI Summary for SPARC	This gene encodes a cysteine-rich acidic matrix-associated protein. The encoded protein is required for the collagen in bone to become calcified but is also involved in extracellular matrix synthesis and promotion of changes to cell shape. The gene product has been associated with tumor suppression but has also been correlated with metastasis based on changes to cell shape which can promote tumor cell invasion. [provided by RefSeq, Dec 2011]
UniProt Comments for SPARC	SPARC: 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. Belongs to the SPARC family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 5q31.3-q32 Cellular Component: extracellular space; platelet alpha granule membrane; nuclear matrix; cell surface; mitochondrion; cytoplasm; plasma membrane; extracellular region; basement membrane Molecular Function: collagen binding; protein binding; extracellular matrix binding; calcium ion binding Biological Process: response to peptide hormone stimulus; receptor-mediated endocytosis; response to gravity; platelet activation; extracellular matrix organization and biogenesis; ossification; response to cAMP; heart development; response to glucocorticoid stimulus; response to lipopolysaccharide; signal transduction; response to L-ascorbic acid; negative regulation of angiogenesis; platelet degranulation; response to cadmium ion; response to ethanol; response to cytokine stimulus; response to lead ion; negative regulation of endothelial cell proliferation; regulation of cell morphogenesis; response to calcium ion; blood coagulation; inner ear development; lung development Disease: Osteogenesis Imperfecta, Type Xvii
Research Articles on SPARC	**1.** MiR-145 regulates glioma cell migration by targeting CTGF which downregulates SPARC expression.
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