SPARC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPARC, Polyclonal Antibody
Full Product Name	Anti-SPARC Antibody, Rabbit Polyclonal
Product Gene Name	anti-SPARC antibody
Product Synonym Names	Osteonectin/SPARC Antibody, Rabbit PAb, Antigen Affinity Purified; secreted protein, acidic, cysteine-rich (osteonectin); Anti-AA517111 Antibody; Anti-BM-40 Antibody; Anti-ON Antibody; Anti-RP23-465I4.1 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse Osteonectin/SPARC
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	34,450 Da
3D Structure	ModBase 3D Structure for P07214
Immunogen	Recombinant Mouse Osteonectin/SPARC protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Osteonectin/SPARC (rM Osteonectin/SPARC). Osteonectin/SPARC specific IgG was purified by Mouse Osteonectin/SPARC affinity chromatography.
Applications Tested/Suitable for anti-SPARC antibody	ELISA (EIA)
Application Notes for anti-SPARC antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-SPARC antibody	Secreted protein acidic and rich in cysteine (SPARC), also known as Osteonectin (ON), is a member of the SPARC family. SPARC consists of three domains: an EF-hand domain, a follistatin-like domain and a Kazal-like domain, and each of which has independent activity and unique properties. The activity of SPARC is context-and cell-type-dependent, which is highlighted by the fact that SPARC has shown seemingly contradictory effects on tumor progression in both clinical correlative studies and in animal models. The location of SPARC in the nuclear matrix of certain proliferating cells, but only in the cytosol of postmitotic neurons, indicates potential functions of SPARC as a nuclear protein, which might be involved in the regulation of cell cycle progression and mitosis. It functions not only to modulate cell-cell and cell-matrix interactions, but its de-adhesive and growth inhibitory properties in non-transformed cells have led to studies to assess its role in cancer. Its divergent actions reflect the complexity of this protein, because in certain types of cancers, such as melanomas and gliomas, SPARC is associated with a highly aggressive tumor phenotype, while in others, mainly ovarian, neuroblastomas and colorectal cancers, SPARC may function as a tumor suppressor. Recent studies have also demonstrated a role for SPARC in sensitizing therapy-resistant cancers. Notably, SPARC is linked to human obesity.

Product References and Citations for anti-SPARC antibody	Yan Q, et al. (1999) SPARC, a matricellular glycoprotein with important biological functions. J Histochem Cytochem. 47(12): 1495-506.Brekken RA, et al. (2000) SPARC, a matricellular protein: at the crossroads of cell-matrix. Matrix Biol. 19(7): 569-80.Tai IT, et al. (2008) SPARC in cancer biology: its role in cancer progression and potential for therapy. Drug Resist Updat. 11(6): 231-46.Podhajcer OL, et al. (2008) The role of the matricellular protein SPARC in the dynamic interaction between the tumor and the host. Cancer Metastasis Rev. 27(3): 523-37.Kos K, et al. (2010) SPARC: a key player in the pathologies associated with obesity and diabetes. Nat Rev Endocrinol. 6(4): 225-35.
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.
Searchable Terms for SPARC purchase	MBS8111661 is an antibody targeting SPARC. Also known as Anti-SPARC Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	6678077
NCBI GeneID	20692
NCBI Accession #	NP_033268.1
UniProt Primary Accession #	P07214
UniProt Related Accession #	P07214
GenBank Nucleotide #	NM_009242.5
NCBI Official Full Name	SPARC
NCBI Official Synonym Full Names	secreted acidic cysteine rich glycoprotein
NCBI Official Symbol	Sparc
NCBI Official Synonym Symbols	ON; BM-40
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	BM-40; ON
NCBI Protein Information	SPARC
UniProt Comments for 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 Ca2+ with a low affinity and an EF-hand loop that binds a Ca2+ ion with a high affinity.
Research Articles on SPARC	**1.** SPARC isoforms, acting on Adipose stromal cells through distinct mechanisms, have an additive effect in inducing ASC migration.
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