Rabbit SPARC Polyclonal Antibody | anti-SPARC antibody

SPARC Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326270	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunohistochemistry, Western Blot**

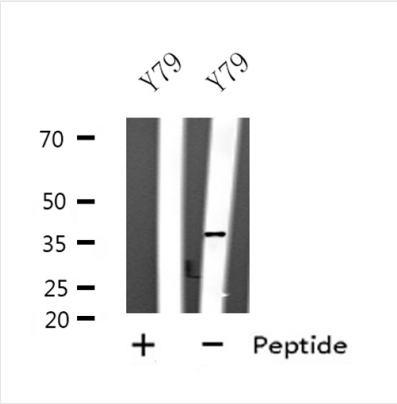
PRODUCT SYNONYMS

SPARC; Polyclonal Antibody; SPARC Antibody; AA517111; Basement membrane protein 40; Basement-membrane protein 40; BM 40; BM-40; BM40; Cysteine rich protein; hm:zeh0062; MGC128090; OI17; ON; Osteonectin; Secreted acidic cystein rich glycoprotein; Secreted protein acidic and rich in cysteine; Secreted protein acidic cysteine rich (osteonectin); Secreted protein acidic cysteine rich; SPRC; SPRC_HUMAN; anti-SPARC antibody

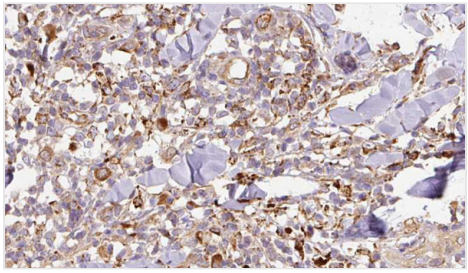
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SPARC antibody detects endogenous levels of total SPARC
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	302
Applicable Applications for anti-SPARC antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SPARC
Subcellular Location	Secreted > Extracellular Space > Extracellular Matrix > Basement Membrane. In or around the basement membrane.
Tissue Specificity	Expressed at high levels in tissues undergoing morphogenesis, remodeling and wound repair.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Zebrafish (91%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (82%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of Y79 cell lines, using SPARC antibody.



IHC (Immunohistochemistry)
AAA326270 at 1/100 staining Human Melanoma tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-SPARC antibody	Description: SPARC (secreted protein acidic and rich in cysteine), also known as osteonectin and BM40, is a secreted matricellular glycoprotein that belongs to a group of functionally related glycoproteins that includes tenascins C and X, thrombospondins 1 and 2, and osteopontin (1). Members in this class of glycoproteins are involved in tissue renewal, tissue remodeling, and embryonic development and work by exerting counter-adhesive and antiproliferative effects that lead to changes in cell shape, disruption of cell adhesion, and inhibition of the cell cycle (2). SPARC is expressed at high levels in bone tissue but is widely distributed in many other tissues and cell types (3), and is known to be associated with tissues undergoing morphogenesis, angiogenesis, mineralization, and other pathological responses to injury and tumorigenesis (4, 5). SPARC has also been linked with obesity and diabetes (6). 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 Ca2+ with a low affinity and an EF-hand loop that binds a Ca2+ ion with a high affinity. Similarity: Belongs to the SPARC family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	827342585
NCBI GeneID	6678
NCBI Accession #	NP_001296372.1
NCBI GenBank Nucleotide #	NM_001309443.1
UniProt Accession #	P09486; Q6IBK4; D3DQH9
Molecular Weight	Observed: 35 kDa Predicted: 35 kDa
NCBI Official Full Name	SPARC isoform 2
NCBI Official Synonym Full Names	secreted protein acidic and cysteine rich
NCBI Official Symbol	SPARC
NCBI Official Synonym Symbols	ON; OI17; BM-40
NCBI Protein Information	SPARC
UniProt Protein Name	SPARC
UniProt Gene Name	**SPARC**

UniProt Synonym Gene Names	ON; BM-40; ON

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/sparc-antibody-immunohistochemistry-western-blot-elisa/326270