

## Rabbit SPARC Polyclonal Antibody | anti-SPARC antibody

SPARC Antibody

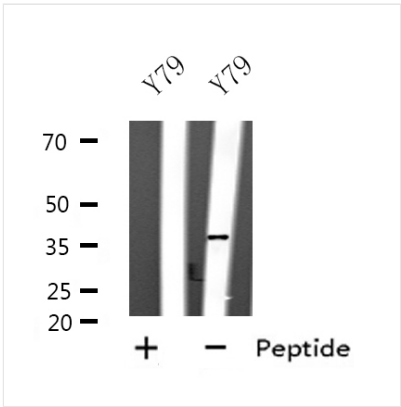
|                               |                       |                                        |                                                                  |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA326270</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

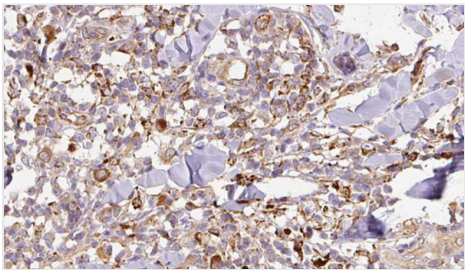
SPARC; Polyclonal Antibody; SPARC Antibody; AA517111; Basement membrane protein 40; Basement-membrane protein 40; BM 40; BM-40; BM40; Cysteine rich protein; hm:zeh0062; MGC128090; OI17; ON; Osteonectin; Secreted acidic cystein rich glycoprotein; Secreted protein acidic and rich in cysteine; Secreted 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<br>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                      | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                       |
| 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.                                                                |



**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

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-SPARC antibody</b> | <p>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).</p> <p>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<sup>2+</sup> with a low affinity and an EF-hand loop that binds a Ca<sup>2+</sup> ion with a high affinity.</p> <p>Similarity: Belongs to the SPARC family.</p> |
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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<br>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                                     |

**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://www.aaabiotech.com/polyclonal/sparc-antibody-immunohistochemistry-western-blot-elisa/326270>