

AP05261CP-N**SPARC control peptide****Alternate names:**

BM-40, Basement-membrane protein 40, ON, Secreted protein acidic and rich in cysteine

Quantity:

50 µg

Concentration:

Lot specific

Background:

SPARC is a key factor in cell-matrix interactions and possibly tumour aggressiveness. The SPARC gene, which encodes a multifunctional glycoprotein with roles in tissue development, remodelling and fibrosis. A regulator of cell-extracellular matrix (ECM) interactions, SPARC represents a major factor in the ECM remodelling occurring during tumour invasion. *in silico* analysis reveals 4 UTR-SNPs located in the 3'-UTR of the SPARC gene, corresponding to 1474 g a, 1551 g c, 1922 t g and 2072 c t changes, which are significantly associated with tumoral state of the tissue. Of all hits, the 2072 SPARC polymorphism had the best association with cancer. SPARC therefore is a gene involved in a number of diseases including rheumatoid arthritis, scleroderma, tumor development and metastasis. SPARC variants have been detected in tumour samples of patients with acute myeloblastic leukemia (AML).

Uniprot ID:

[P09486](#)

NCBI:

[NP_003109](#)

GeneID:

[6678](#)

Format:

State: Liquid purified peptide

Buffer System: Phosphate buffered saline containing 0.08% sodium azide

Applications:

Incubate antibody neat with at least a 50 fold stoichiometric excess of blocking peptide at 37°C for 20 minutes (molecular weights of peptide and antibody are ~2.5 kDa and ~160 kDa, respectively). Antibody can then be diluted to a concentration suitable for Western blot.

Example: 10 µl or 10 µg of rabbit anti-SPARC is added to 10 µg of blocking peptide for a total volume of 20 µl. The mixture is allowed to incubate for 20 minutes at 37°C prior to dilution in suitable buffer (for Western blot, etc.).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Control peptide for antibody AP05261PU-N only.

Storage:

Store at -20°C.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.