

Rabbit anti Human SPARC

exalpa.com/products/rabbit-anti-human-sparc/X1867P

Catalog number: **X1867P**

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| Product Type | Antigen Immunoaffinity Purified Polyclonal |
| Units | 70 µg |
| Host | Rabbit |
| Species Reactivity | Human SPARC may cross react with SPARCL1 |
| Application | ELISA Immunohistochemistry Western Blotting |

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).

Synonyms: Secreted Protein Acidic and Rich in Cysteine, SPARC, SPARC-related modular calcium-binding protein 2 [Precursor], Secreted modular calcium-binding protein 2, SMOC-2, Smooth muscle-associated protein 2, SMAP-2

Source

Immunogen: Synthetic peptide derived from the human SPARC protein.

Product

Product Form: Affinity Purified

Formulation: Provided as ligand affinity purified antibody in phosphate buffered saline with 0.08% sodium azide

Purification Method: Antigen Immunoaffinity Purification

Concentration: Lot specific, see vial

Applications

Antibody can be used for Western blotting (0.5-1 µg/ml). Optimal concentration should be evaluated by serial dilutions.

Functional Analysis: Western Blotting, IHC

Positive Control: Antibody has been tested on mouse heart lysate.

Storage

Product should be stored at -70°C. Aliquot to avoid freeze/thaw cycles

Product Stability: See expiration date on vial

Shipping Conditions: Ship at ambient temperature, freeze upon arrival

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

References

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3. Xue LY, et al. 'Tissue microarray analysis reveals a tight correlation between protein expression pattern and progression of esophageal squamous cell carcinoma.' *BMC Cancer*. 2006 Dec 22;6(1):296 [Epub ahead of print] PMID: 17187659
4. Arp HP, et al. 'Predicting the partitioning behavior of various highly fluorinated compounds.' *Environ Sci Technol*. 2006 Dec 1;40(23):7298-304. PMID: 17180981
5. Kelly KA, et al. 'SPARC is a VCAM-1 counter-ligand that mediates leukocyte transmigration.' *J Leukoc Biol*. 2006 Dec 18; [Epub ahead of print]
6. Markovic, S., et al. 'Tumor SPARC microenvironment signature (SMS) and plasma levels in a phase II trial of unresectable stage IV melanoma treated with nab-paclitaxel and carboplatin: A translational study of NCCTG trial N057E.' *J. Clin. Oncol*. 2010, Vol. 28, No. 15, 8578
7. Weiss, G.J., et al. 'Molecular

characterization of interdigitating dendritic cell sarcoma.' Rare Tumors, 2010, 2:e50 8.
Alonso, E.N., et al. 'Genes Related to Suppression of Malignant Phenotype Induced by
Maitake D-Fraction in Breast Cancer Cells.' J. Med. Food., 16, 602-617 (2013).

Protein Reference(s)

Database Name: UniProt

Accession Number: P09486

Species Accession: Human

Safety Datasheet(s) for this product:

EA_Sodium Azide



Western Blot- Detection of endogenous SPARC in mouse heart lysate using X1867P (0.75 ug/ml) and anti-rabbit HRP (1:75k) and using Pierce's Super Signal West Femto. IHC- Detection of endogenous SPARC in human hepatocellular carcinoma (HCC). 2 ug/ml X1867P, developed with Vector ImmPress anti-rabbit HRP and DAB substrate.