Rabbit anti Human SPARC, conjugated with Biotin

exalpha.com/products/rabbit-anti-human-sparc-conjugated-with-biotin/X2745P

Catalog number: **X2745P**

Isotype	Ig
Product Type	Antigen Immunoaffinity Purified Polyclonal
Units	50 µg
Host	Rabbit
Species Reactivity	Human SPARC may cross react with SPARCL1
Application	Immunohistochemistry

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 Biotin

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

Purification Method: Antigen Immunoaffiinity Purification

Concentration: See vial for concentration

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

Functional Analysis: ELISA

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

Storage
Product should be stored at -20ºC. 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
1. Shi Q, et al. 'Targeting SPARC expression decreases glioma cellular survival and invasion associated with reduced activities of FAK and ILK kinases.' Oncogene. 2007 Jan 8; [Epub ahead of print] PMID: 17213807 2. Aouacheria A, et al. 'In silico whole-genome screening for cancer-related single-nucleotide polymorphisms located in human mRNA untranslated regions.' BMC Genomics. 2007 Jan 3;8(1):2 [Epub ahead of print] PMID: 17201911 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: SwissProt

Accession Number: P09486

Species Accession: Human

Safety Datasheet(s) for this product:
EA_Sodium Azide