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Datasheet for ABIN6719906

SPARC ELISA Kit

Overview

Quantity:	1 kit
Target:	SPARC
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.78 ng/mL - 50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Breast Milk, Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric

Characteristics: Synonyms: AA517111, Basement membrane protein 40, Basement-membrane protein 40, BM 40, BM-40, BM40, Cysteine rich protein, MGC128090, ON, Osteonectin, Secreted acidic cysteine rich glycoprotein, Secreted protein acidic and rich in cysteine, Secreted protein acidic cysteine rich (osteonectin), Secreted protein acidic cysteine rich, SPARC, SPRC, SPRC_HUMAN

Background: SPARC(secreted protein acidic and rich in cysteine), also known as Osteonectin, is a protein that in humans is encoded by the SPARC gene. The human SPARC gene is 26.5 kb long, and contains 10 exons and 9 introns and is located on chromosome 5q31-q33. SPARC is a glycoprotein of 40 kD. SPARC is an acidic, cysteine-rich glycoprotein consisting of a single

Product Details

polypeptide chain that can be broken into 4 domains: 1) an Ca^{++} binding domains near the glutamic acidic-rich region at the amino terminus(domain I), 2) a cysteine- rich(domain II), 3) a hydrophilic region(domain III) and 4) an EF hand motif at the carboxy terminus region(domain IV). Osteonectin is a glycoprotein in the bone that binds sodium. It is secreted by osteoblasts during bone formation, initiating mineralization and promoting mineral crystal formation. Osteonectin also shows affinity for collagen in addition to bone mineral calcium. A correlation between osteonectin over expression and ampullary cancers and chronic pancreatitis has been found.

Gene Name: SPARC

Production: Natural and recombinant human SPARC. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: A18-I303

Target Details

Target:	SPARC
Alternative Name:	SPARC (SPARC Products)
Gene ID:	6678
NCBI Accession:	NP_001296372
UniProt:	P09486
Pathways:	Autophagy

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 0.78 ng/mL human SPARC standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or human milk to each empty well. We recommend that each human SPARC standard solution and each sample is measured in duplicate.</p> <p>ELISA Dilution: 0.78 ng/mL-50 ng/mL</p>
Sample Volume:	100 μL
Plate:	Pre-coated

Application Details

Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.