

Datasheet for KOA0707**Human SPARC ELISA Kit****Overview**

Description:	Human SPARC AccuSignal ELISA Kit - KOA0707
Item No.:	KOA0707
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	0.78 ng/ml - 50 ng/ml

Product Details

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 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.
Synonyms:	AA517111, Basement membrane protein 40, Basement-membrane protein 40, BM 40, BM-40, BM40, Cysteine rich protein, MGC128090, 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, SPARC, SPRC, SPRC_HUMAN
Detection Kit Type:	ELISA Kit
Detection Range:	0.78 ng/ml - 50 ng/ml
Sensitivity:	<20 pg/ml

Target Details

Gene Name:	SPARC
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Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: A18-I303
Purity/Specificity:	Natural and recombinant human SPARC. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P09486 • NCBI - NP_001296372.1 • GenelD - 6678 • KOA0707 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 50ng/ml, 25ng/ml, 12.5ng/ml, 6.25ng/ml, 3.12ng/ml, 1.56ng/ml, 0.78ng/ml human SPARC standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	DOE: 2-8° C - 06/04/2021 -20° C - 12/03/2021

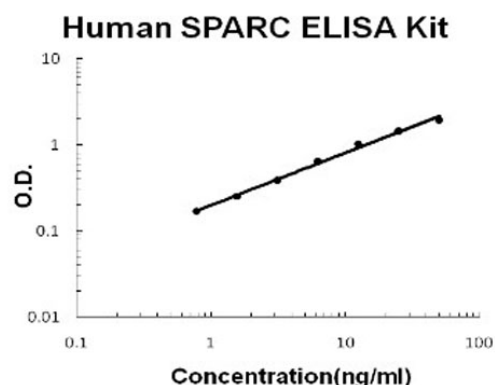
Formulation

Concentration:	1 Kit
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Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.
Expiration:	See kit insert for complete instructions.

Images



ELISA

Human SPARC ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.