

Human SPARC ELISA Kit | SPARC elisa kit

Human SPARC PicoKine ELISA Kit

CATALOG #
AAA45953

REACTIVITY
Human

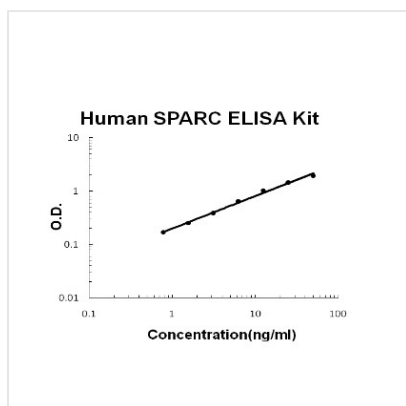
PRODUCT SYNONYMS

SPARC; Human SPARC PicoKine ELISA Kit; secreted protein; acidic; cysteine-rich (osteonectin); 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; SPRC; SPRC_HUMAN; SPARC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human SPARC
Sequence Length	303
Samples	Cell culture supernates, serum and human milk
Assay Type	Sandwich
Detection Range	0.78ng/ml-50ng/ml
Sensitivity	< 20pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human SPARC PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for SPARC elisa kit	Principle of the assay: human SPARC ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for SPARC has been precoated onto 96-well plates. Standards(NSO, A18-I303) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for SPARC is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human SPARC amount of sample captured in plate. 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.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	129283
NCBI GeneID	6678
UniProt Accession #	P09486; Q6IBK4; D3DQH9
Molecular Weight	34,632 Da
NCBI Official Full Name	SPARC
NCBI Official Synonym Full Names	secreted protein, acidic, cysteine-rich (osteonectin)
NCBI Official Symbol	SPARC
NCBI Official Synonym Symbols	ON
NCBI Protein Information	SPARC; BM-40; osteonectin; cysteine-rich protein; basement-membrane protein 40; secreted protein acidic and rich in cysteine
UniProt Protein Name	SPARC
UniProt Gene Name	SPARC
UniProt Synonym Gene Names	ON; BM-40; ON
UniProt Entry Name	SPRC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.