

Mouse secreted protein, acidic, cysteine-rich (osteonectin) ELISA Kit | SPARC elisa kit

Mouse onteonectin, ON ELISA Kit

CATALOG #
AAA80412

REACTIVITY
Mouse

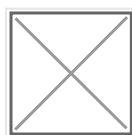
PRODUCT SYNONYMS

secreted protein; acidic; cysteine-rich (osteonectin); Mouse onteonectin; ON ELISA Kit; ON; cysteine-rich protein; onteonectin; cysteine-rich; SPARC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse SPARC. No significant cross-reactivity or interference between Mouse SPARC and analogues was observed.
Sequence Length	302
Detection Range	31.2 pg/ml-2000 pg/ml
Sensitivity	8 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SPARC elisa kit

Introduction: Osteonectin is a glycoprotein in the bone that binds calcium. 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. Some current research shows a correlation between osteonectin over expression and ampullary cancers and chronic pancreatitis. Osteonectin is an acidic, secreted extracellular matrix glycoprotein that plays a vital role in bone mineralization, cell-matrix interactions, and collagen binding. Osteonectin also increases the production and activity of matrix metalloproteinases, a function important to invading cancer cells within bone. Additional functions of osteonectin beneficial to tumor cells include angiogenesis, proliferation and migration. Overexpression of osteonectin is reported in many Mouse cancers such as breast, prostate and colon.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ON. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for ON and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain ON, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of ON in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678077
NCBI GeneID	20692
NCBI Accession #	NP_033268.1
NCBI GenBank Nucleotide #	NM_009242.5
UniProt Accession #	P07214
Molecular Weight	34,450 Da
NCBI Official Full Name	SPARC
NCBI Official Synonym Full Names	secreted acidic cysteine rich glycoprotein
NCBI Official Symbol	Sparc
NCBI Official Synonym Symbols	ON; BM-40
NCBI Protein Information	SPARC; osteonectin; basement-membrane protein 40; secreted protein acidic and rich in cysteine
UniProt Protein Name	SPARC
UniProt Gene Name	Sparc
UniProt Synonym Gene Names	BM-40; ON
UniProt Entry Name	SPRC_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/sparc-mouse-elisa-kits/secreted-protein-acidic-cysteine-rich-osteonectin/80412>