

Mouse SPARC ELISA Kit | Sparc elisa kit

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CATALOG #
AAA17582

REACTIVITY
Mouse

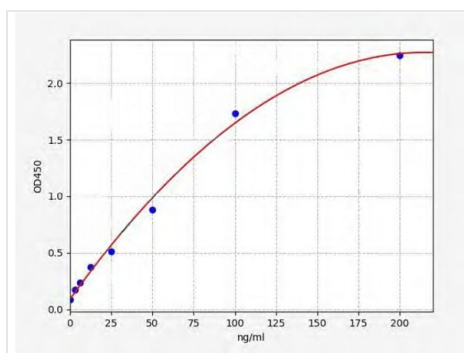
PRODUCT SYNONYMS

SPARC; Mouse SPARC ELISA Kit; Sparc/SPARC/BM-40/Osteonectin/Basement-membrane protein 40/BM-40/ONcysteine-rich protein/osteonectin/Osteonectin/Secreted protein acidic and rich in cysteine/secreted protein; acidic; cysteine-rich (osteonectin); Sparc elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize Sparc, no obvious cross reaction with other analogues
Sequence Length	303
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	3.125-200ng/ml
Sensitivity	1.875ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Sparc elisa kit	Background: SPARC (secreted protein acidic and rich in cysteine), also known as osteonectin and BM40, is a secreted matricellular glycoprotein that belongs to a group of functionally related glycoproteins that includes tenascins C and X, thrombospondins 1 and 2, and osteopontin. Members in this class of glycoproteins are involved in tissue renewal, tissue remodeling, and embryonic development and work by exerting counter-adhesive and antiproliferative effects that lead to changes in cell shape, disruption of cell adhesion, and inhibition of the cell cycle. SPARC is expressed at high levels in bone tissue but is widely distributed in many other tissues and cell types, and is known to be associated with tissues undergoing morphogenesis, angiogenesis, mineralization, and other pathological responses to injury and tumorigenesis. SPARC has also been linked with obesity and diabetes. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti Sparc antibody was precoated onto the 96-well plate. The biotin conjugated anti Sparc antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with Sparc conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of Sparc in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507171
NCBI GeneID	6678
NCBI Accession #	NP_003109.1
NCBI GenBank Nucleotide #	NM_003118.3
Molecular Weight	34,632 Da
NCBI Official Full Name	SPARC isoform 1
NCBI Official Synonym Full Names	secreted protein acidic and cysteine rich
NCBI Official Symbol	SPARC
NCBI Official Synonym Symbols	ON; OI17; BM-40
NCBI Protein Information	SPARC
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.