Datasheet for ABIN7596447

SPARC Protein (AA 18-303) (His tag)

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Overview

Quantity:	500 µg
Target:	SPARC
Protein Characteristics:	AA 18-303
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPARC protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	APQQEAL PDETEVVEET VAEVTEVSVG ANPVQVEVGE FDDGAEETEE EVVAENPCQN HHCKHGKVCE LDENNTPMCV CQDPTSCPAP IGEFEKVCSN DNKTFDSSCH FFATKCTLEG TKKGHKLHLD YIGPCKYIPP CLDSELTEFP LRMRDWLKNV LVTLYERDED NNLLTEKQKL RVKKIHENEK RLEAGDHPVE LLARDFEKNY NMYIFPVHWQ FGQLDQHPID GYLSHTELAP LRAPLIPMEH CTTRFFETCD LDNDKYIALD EWAGCFGIKQ KDIDKDLVI
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

Target Details

Target:	SPARC
Alternative Name:	SPARC (SPARC Products)

Target Details

Background:	SPARC, also known as osteonectin, is a member of secreted matricellular proteins. It is produced by fibroblasts, capillary endothelial cells, platelets and macrophages, especially in areas of tissue morphogenesis and remodeling. This protein regulates cell growth through interactions with the extracellular matrix and cytokines and binds calcium and copper, several types of collagen, albumin, thrombospondin, PDGF and cell membranes. It functions as modulating cell-cell and cell-matrix interactions and its de-adhesive and growth inhibitory properties in non-transformed cell. It is secreted by osteoblasts during bone formation, initiating mineralization and promoting mineral crystal formation. A correlation between SPARC over-expression and ampullary cancers and chronic pancreatitis has been found. It also shows affinity for collagen in addition to bone mineral calcium. Recent studies have also demonstrated a role for SPARC in sensitizing therapy-resistant cancers. Notably, it is linked to human obesity. Recombinant human SPARC, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	33.8 kDa (295aa)
NCBI Accession:	NP_003109
Pathways:	Autophagy

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.