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Datasheet for ABIN7534289
SPARC Protein (His tag)

Overview

Quantity:	100 µg
Target:	SPARC
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPARC protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Osteonectin/SPARC Protein
Sequence:	APQQEALPDE TEVVEETVAE VTEVSVGANP VQVEVGEFDD GAEETEEEVV AENPCQNHHK KHGKVCDELDE NNTPMCVCQD PTSCPAPIGE FEKVCSDNDK TFDSSCHFFA TKCTLEGTKK GHKLHLDYIG PCKYIPPCLD SELTEFPLRM RDWLKKNVLT LYERDEDNNL LTEKQKLRVK KIHENEKRL EAGDHPVELLA RDFEKNYNMY IFPVHWQFGQ LDQHPIDGYL SHTELAPLRA PLIPMEHCTT RFFETCDLDN DKYIALDEWA GCFGIKQKDI DKDLVI
Specificity:	Ala18-Ile303
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Target Details

Target:	SPARC
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Target Details

Alternative Name: [Osteonectin/SPARC \(SPARC Products\)](#)

Background: Description: SPARC (secreted protein acidic and rich in cysteine), also known as osteonectin and BM40, is a secreted extracellular glycoprotein. SPARC is produced by fibroblasts, capillary endothelial cells, platelets and macrophages, especially in areas of tissue morphogenesis and remodeling. SPARC is involved in tissue renewal, tissue remodeling, and embryonic development and works 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 abundantly expressed in bone where it promotes osteoblast differentiation and inhibits adipogenesis. SPARC is highly expressed in many tumor types undergoing an endothelial to mesenchymal transition, its expression, however, mainly decreases the likelihood of metastasis and confers sensitivity to chemotherapy and radiation. SPARC has also been linked with obesity and diabetes.

Name: SPARC, BM-40, OI17

Gene ID: 6678

UniProt: [P09486](#)

Pathways: [Autophagy](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C, -80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.
