

SPARC Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700830
Synonyms:	SPARC; BM-40; ON; EGM_15571
Species:	Cynomolgus
Source:	HEK293
Accession:	G7P8R2 (A18-I303)
Gene ID:	101925878
Molecular Weight:	43-48 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus SPARC, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-SPARC Antibody, hFc Tag with the EC ₅₀ of 0.38µg/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The SPARC protein plays a crucial role in regulating cell growth by interacting with the extracellular matrix and cytokines. It exhibits binding capabilities for calcium and copper, as well as various components such as different types of collagen, albumin, thrombospondin, PDGF, and cell membranes. Notably, SPARC possesses two calcium binding sites. The acidic domain binds 5 to 8 Ca(2+) ions with low affinity, while the EF-hand loop binds a Ca(2+) ion with high affinity. These binding sites enable SPARC to effectively modulate cellular functions and contribute to the regulation of cell growth.
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Caution: Product has not been fully validated for medical applications. For research use only.

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