SCG3/Secretogranin-3 Protein, Cynomolgus (449a.a, HEK293, His)

Cat. No.:	HY-P700824
Synonyms:	Secretogranin-3; Secretogranin III; SCG3; SGIII; UNQ2502/PRO5990
Species:	Cynomolgus
Source:	HEK293
Accession:	I7G9U8 (F20-L468)
Gene ID:	101925820
Molecular Weight:	58-70 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus SG3, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-SG3 Antibody, hFc Tag with the EC_{50} of 11.4ng/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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	SCG3/Secretogranin-3 Protein, a member of the granin protein family, serves a crucial role in regulating the biogenesis of secretory granules. Functioning as a sorting receptor for intragranular proteins, including chromogranin A/CHGA, SCG3 contributes to the dynamic process of granule formation. Beyond its involvement in granule biogenesis, SCG3 may also play a role in angiogenesis, where it promotes endothelial proliferation, migration, and tube formation through the MEK/ERK signaling pathway. The protein interacts with chromogranin A (CHGA), highlighting its key association with intragranular proteins. Additionally, SCG3 engages in interactions with secretogranin II/SCG2 and carboxypeptidase E (CPE), further emphasizing its intricate involvement in cellular processes related to granule dynamics and angiogenesis.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA