

SCGN (H-91): sc-135395

BACKGROUND

SCGN, also known as secretagogen, CALBL, setagin or SECRET, is a 276 amino acid cytoplasmic protein that contains 6 EF-hand domains and is related to the calcium-binding proteins calretinin and calbindin D28K. Expressed in a variety of tissues including stomach, thyroid, colon, brain and neuroendocrine cells, SCGN is thought to be involved in cell proliferation and KCl (potassium chloride)-mediated calcium flux events. Through its interaction with KCl and its subsequent ability to modulate calcium storage pools within the cell, SCGN may function to negatively control growth and differentiation rates and, thus, indirectly inhibit cell replication.

REFERENCES

1. Wagner, L., et al. 2000. Cloning and expression of secretagogen, a novel neuroendocrine- and pancreatic islet of Langerhans-specific Ca²⁺-binding protein. *J. Biol. Chem.* 275: 24740-24751.
2. Gartner, W., et al. 2001. Cerebral expression and serum detectability of secretagogen, a recently cloned EF-hand Ca²⁺-binding protein. *Cereb. Cortex* 11: 1161-1169.

CHROMOSOMAL LOCATION

Genetic locus: SCGN (human) mapping to 6p22.2; Scgn (mouse) mapping to 13 A3.1.

SOURCE

SCGN (H-91) is a rabbit polyclonal antibody raised against amino acids 186-276 mapping at the C-terminus of SCGN of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SCGN (H-91) is recommended for detection of SCGN of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SCGN (H-91) is also recommended for detection of SCGN in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SCGN siRNA (h): sc-95181, SCGN siRNA (m): sc-153255, SCGN shRNA Plasmid (h): sc-95181-SH, SCGN shRNA Plasmid (m): sc-153255-SH, SCGN shRNA (h) Lentiviral Particles: sc-95181-V and SCGN shRNA (m) Lentiviral Particles: sc-153255-V.

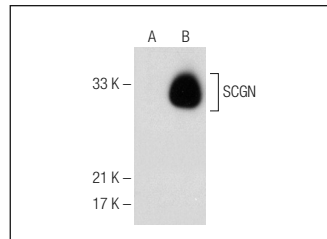
Molecular Weight of SCGN: 32 kDa.

Positive Controls: CEM whole cell lysate or SCGN (m): 293T Lysate: sc-123383.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



SCGN (H-91): sc-135395. Western blot analysis of SCGN expression in non-transfected: sc-117752 (A) and mouse SCGN transfected: sc-123383 (B) 293T whole cell lysates.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **SCGN (F-9): sc-374355**, our highly recommended monoclonal alternative to SCGN (H-91).