



## Product Information Sheet

### Polyclonal Anti-Secretogranin III, SCG3

**Catalogue No.** PA1071

**Lot No.** 06J01

**Ig type:** rabbit IgG

**Size:** 100µg/vial

**Specificity**

Human, mouse, rat.

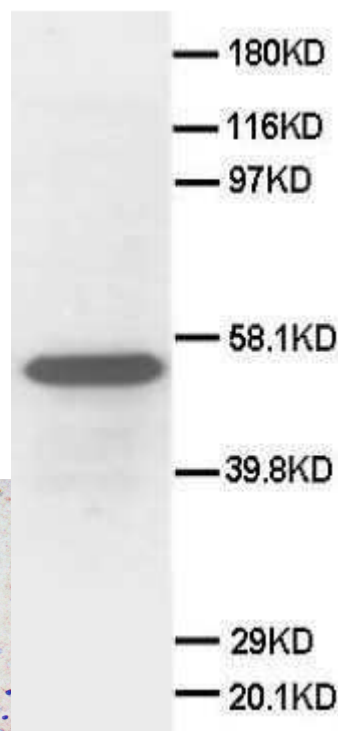
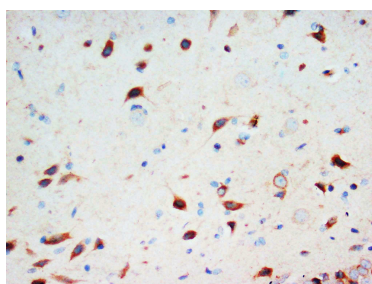
No cross reactivity with other proteins.

**Recommended application**

*Western blot*

*Immunohistochemistry(P)*

*Immunohistochemistry(F)*



**Immunogen**

A synthetic peptide corresponding to a sequence near the C-terminal of human SCG3, different from the related mouse and rat sequence by single amino acid.

**Purity**

Immunogen affinity purified.

**Application**

*Western blot*

At 1-2µg/ml with the appropriate system to detect SCG3 in cells and tissues.

*Immunohistochemistry(P)*

At 0.5-1µg/ml to detect SCG3 in formalin fixed and paraffin embedded tissues.

*Immunohistochemistry(F)*

At 0.5-1µg/ml to detect SCG3 in formalin or acetone fixed tissues.

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

**To reorder contact us at:**

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: Info@antageneinc.com**

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**

**Contents**

Each vial contains 5mg BSA,  
0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>,  
0.05mg Thimerosal, 0.05mg  
NaN<sub>3</sub>.

a concentration of 500µg/ml.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

**Reconstitution**

0.2ml of distilled water will yield

**BACKGROUND**

SCG3 (secretogranin III) is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. Genetic variations in the SCG3 gene may influence the risk of obesity through possible regulation of hypothalamic neuropeptide secretion. SCG3 was the only gene within a haplotype block that contained rs3764220. SCG3 mRNA and immunoreactivity were detected in the paraventricular nucleus, lateral hypothalamic area, and arcuate nucleus, and the protein coexisted with orexin, melanin-concentrating hormone, neuropeptide Y, and proopiomelanocortin. SCG3 formed a granule-like structure together with these neuropeptides.

**REFERENCE**

1. Related Articles, Links Tanabe A, Yanagiya T, Iida A, Saito S, Sekine A, Takahashi A, Nakamura T, Tsunoda T, Kamohara S, Nakata Y, Kotani K, Komatsu R, Itoh N, Mineo I, Wada J, Funahashi T, Miyazaki S, Tokunaga K, Hamaguchi K, Shimada T, Tanaka K, Yamada K, Hanafusa T, Oikawa S, Yoshimatsu H, Sakata T, Matsuzawa Y, Kamatani N, Nakamura Y, Hotta K. Functional single-nucleotide polymorphisms in the secretogranin III (SCG3) gene that form secretory granules with appetite-related neuropeptides are associated with obesity. *J Clin Endocrinol Metab*. 2007 Mar;92(3):1145-54. Epub 2007 Jan 2.