

Secretogranin II Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 26101

Format: 200ul rabbit antiserum

BACKGROUND

Secretogranin II (SgII), encoded by the gene *SCG2*, is a member of the granin family of neuroendocrine secretory proteins. The granin family also includes chromogranin A (CgA), chromogranin B (CgB), and several other secretogranin-like proteins. Studies in rodents suggest that the full-length protein, SgII, is involved in the packaging or sorting of peptide hormones and neuropeptides into secretory vesicles. SgII occurs in a variety of neoplasms arising from endocrine and neuroendocrine cells and can be a useful histological tumor marker for those cells.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide derived from the N-terminus of mature SgII protein:

QRNQLLGKEPDLRLENVQK (Accession no. AAA36607).

Host Species: Rabbit

Specificity: This antibody recognizes human, rat, and squirrel monkey SgII.

APPLICATIONS

Immunoblotting: use diluted 1:2,500-1:10,000. A band of ~86kDa is detected. Although the predicted mw of SgII is ~71kDa, the highly acidic nature of SgII causes it to run at a higher mw in SDS-PAGE.

Immunohistochemistry: use diluted 1:1,000.

Immunoprecipitation: use diluted 1:100-1:500.

Positive control: rat PC12 adrenal pheochromocytoma cells

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C to -70°C. Avoid repeated freeze-thaw cycles.

PRODUCT REFERENCES

Thompson ME et al. 1992. Prolactin granulogenesis is associated with increased secretogranin expression and aggregation in the Golgi apparatus of GHvC1 cells. *Endocrinology* 131: 318-326.

Vasauskas AA et al. 2011. Regulation and distribution of squirrel monkey chorionic gonadotropin and secretogranin II in the pituitary. *General and Comparative Endocrinology* 170: 509-513.

For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.