

Rabbit Anti-Secretogranin 3/SCG3/SgIII Polyclonal: RC0043

Intended Use: For Research Use Only

Description: Chromogranins (secretogranins) are acidic glycoproteins that localize within secretory granules of endocrine, neuroendocrine and neuronal tissue. Family members include chromogranin A, chromogranin B (secretogranin I) chromogranin C and secretogranin III (SCG3 or Sg III). Secretogranin III is an acidic secretory protein expressed in neuronal and endocrine cells. In the anterior lobe of the rat pituitary gland, Secretogranin III is present in mammotropes and thyrotropes, moderately in gonadotropes and corticotropes, though not in somatotropes. Secretogranin III and carboxypeptidase E (CPE) bind specifically to cholesterol-rich secretory granule (SG) membranes. Genetic variations in the SCG3 gene may influence the risk of obesity through possible regulation of hypothalamic neuropeptide secretion.

Specifications:

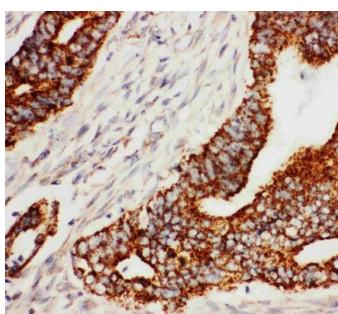
Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human, mouse, rat
Immunogen:	Synthetic peptide aa 438-450 to C-terminus of human Secretogranin 3
Localization:	Secreted
Formulation:	Antibody in PBS pH7.4, containing BSA, and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, ICC/IF, WB
Package:	

Description	Catalog No.	Size
Secretogranin 3/SCG3/SgIII Polyclonal Concentrated	RC0043	1 ml

IHC Procedure*:

Positive Control Tissue:	Brain, heart, kidney, liver and skeletal muscle
Concentrated Dilution:	25-100
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	Overnight at 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human rectal cancer stained with anti-SCG3 using DAB

References:

1. Secretogranin III as a disease-associated ligand for antiangiogenic therapy of diabetic retinopathy In Special Collection: Vascular Biology and Human Disease , Bioenergetics and Metabolic Diseases. Michelle E. LeBlanc, et al. J. Experimental Medicine. March 22 2017.
2. Mass spectrometry identification of granins and other proteins secreted by neuroblastoma cells. | Rozek, W. et al. Tumour Biol. 34: 1773-1781, 2013.
3. Immunohistochemical staining of human islet cells with region-specific antibodies against secretogranins II and III. M Stridsberg 1, et al. J Anat. Mar; 212(3):229-34, 2008.