

For Research Use Only

# Chromogranin B Polyclonal antibody

Catalog Number: 14968-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

14968-1-AP

### Concentration:

550 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6833

### GenBank Accession Number:

BC000375

### GeneID (NCBI):

1114

### UNIPROT ID:

P05060

### Full Name:

chromogranin B (secretogranin 1)

### Calculated MW:

78 kDa

### Observed MW:

70-100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:20-1:200

IF-P 1:50-1:500

IF-Fro 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, IF-Fro, FC (Intra), ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : NIH/3T3 cells, mouse brain tissue, RAW 264.7 cells

IHC : human pancreas tissue, mouse pancreas tissue

IF-P : mouse colon tissue,

IF-Fro : mouse colon tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Chromogranin B is also named as Secretogranin-1, Sgl, CgB, CHGB and SCG1. CHGB, a secretory granule protein, inserts itself into membrane and forms a chloride-conducting channel (PMID: 30456382). Native CHGB distributes nearly equally in soluble and membrane-bound forms, and both reconstitute highly selective anion channels in membrane (PMID: 37435575). The calculated molecular weight of Chromogranin B is at 78kDa. It has been shown that CHGB has a clear degradation band at ~50 kDa (<https://www.biorxiv.org/content/10.1101/2019.12.28.890053v1.full.pdf>).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mahlon Angus Collins	26401960	J Proteome Res	WB
Mohanan Valiya Veettil	31969437	J Virol	WB
Shelby C Bearrows	31182646	J Cell Sci	

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

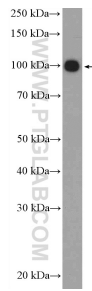
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

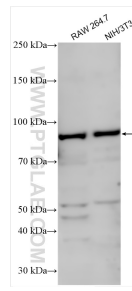
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

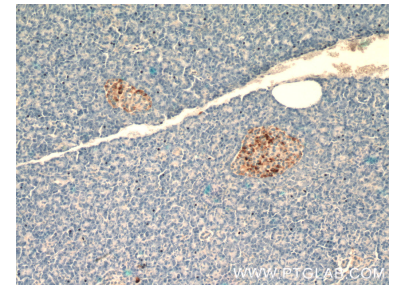
## Selected Validation Data



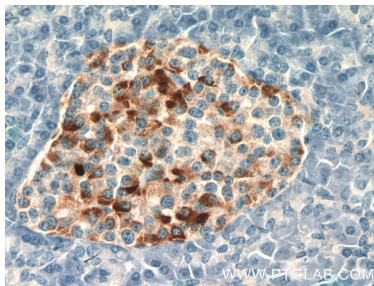
PC-12 cells were subjected to SDS PAGE followed by western blot with 14968-1-AP (Chromogranin B antibody at dilution of 1:300 incubated at room temperature for 1.5 hours.



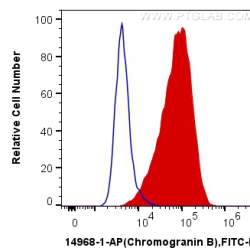
Various lysates were subjected to SDS PAGE followed by western blot with 14968-1-AP (Chromogranin B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



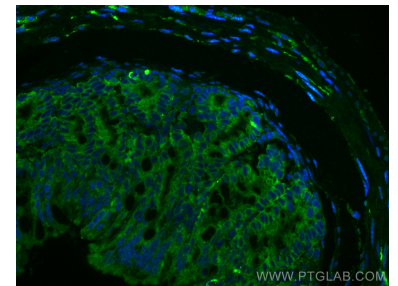
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 14968-1-AP (Chromogranin B antibody at dilution of 1:200 (under 10x lens).



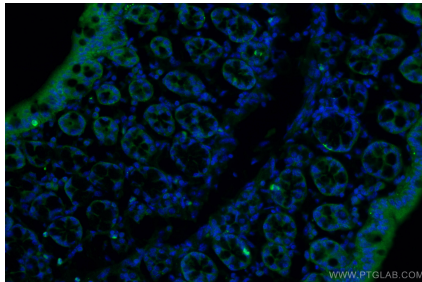
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 14968-1-AP (Chromogranin B antibody at dilution of 1:200 (under 40x lens).



1X10<sup>6</sup> PC-12 cells were intracellularly stained with 0.4 ug Anti-Human Chromogranin B (14968-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using Chromogranin B antibody (14968-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse colon tissue using 14968-1-AP (Chromogranin B antibody) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).