

For Research Use Only

Chromogranin B Polyclonal antibody

Catalog Number: 14968-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number: 14968-1-AP	GenBank Accession Number: BC000375	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop;	GeneID (NCBI): 1114	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	UNIPROT ID: P05060	IHC 1:20-1:200
Isotype: IgG	Full Name: chromogranin B (secretogranin 1)	IF-P 1:50-1:500
Immunogen Catalog Number: AG6833	Calculated MW: 78 kDa	IF-Fro 1:50-1:500
	Observed MW: 70-100 kDa	

Applications

Tested Applications: WB, IHC, IF-P, IF-Fro, FC (Intra), ELISA	Positive Controls: WB : NIH/3T3 cells, mouse brain tissue, RAW 264.7 cells
Cited Applications: WB, IF	IHC : human pancreas tissue, mouse pancreas tissue
Species Specificity: human, mouse, rat	IF-P : mouse colon tissue,
Cited Species: human, mouse	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

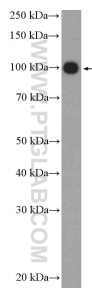
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

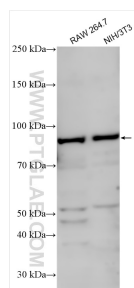
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

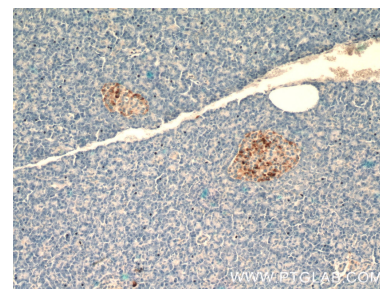
Selected Validation Data



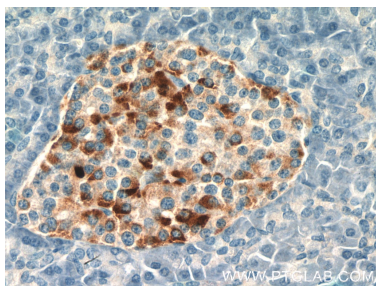
PC-12 cells were subjected to SDS PAGE followed by western blot with 14968-1-AP (Chromogranin B antibody at dilution of 1:300 incubated at room temperature for 1.5 hours.



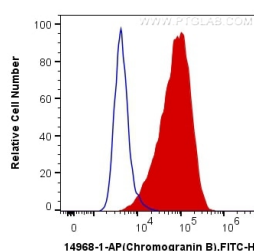
Various lysates were subjected to SDS PAGE followed by western blot with 14968-1-AP (Chromogranin B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



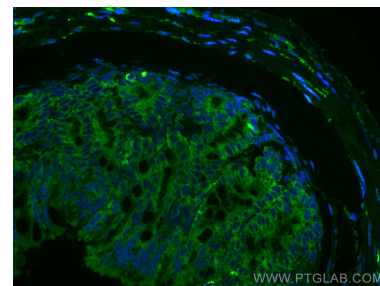
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 14968-1-AP (Chromogranin B antibody at dilution of 1:200 (under 10x lens).



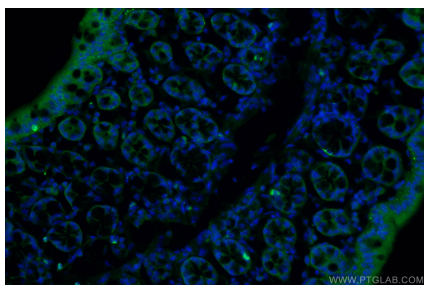
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 14968-1-AP (Chromogranin B antibody at dilution of 1:200 (under 40x lens).



1X10⁶ 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).