

For Research Use Only

# Chromogranin A Monoclonal antibody



Catalog Number: 60135-2-Ig **4 Publications**

## Basic Information

<b>Catalog Number:</b> 60135-2-Ig	<b>GenBank Accession Number:</b> BC006459	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1113	<b>CloneNo.:</b> 2A7D11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P10645	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:1000-1:4000 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> chromogranin A (parathyroid secretory protein 1)	
<b>Immunogen Catalog Number:</b> AG0807	<b>Calculated MW:</b> 51 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

### Tested Applications:

WB, IF, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

Human, pig, mouse, rat

### Cited Species:

human, rat, mouse

### Positive Controls:

**WB** : mouse pancreas tissue, BxPC-3 cells, Neuro-2a cells, PC-12 cells, pig adrenal gland tissue, pig pancreas tissue, rat adrenal gland tissue, SH-SY5Y cells

**IHC** : human pancreas cancer tissue, human colon tissue

**IF** : human pancreas cancer tissue, Neuro-2a cells

**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 A is a member of the granin family of neuroendocrine secretory proteins. It is located in secretory vesicles of neurons and endocrine cells. Chromogranin A is the precursor to several functional peptides including vasostatin, pancreastatin, catestatin and parastatin. These peptides negatively modulate the neuroendocrine function of the releasing cell (autocrine) or nearby cells (paracrine). CgA is one of the most used tumor markers in NET's (neuroendocrine tumors), and elevated CgA concentrations have been demonstrated in serum or plasma of patients with different types of these tumors.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yalan Xu	35841025	Stem Cell Res Ther	IF
Rong Wang	38115765	Adv Sci (Weinh)	WB
Farzana Khan	38082139	Cell Tissue Res	IF

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

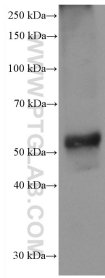
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

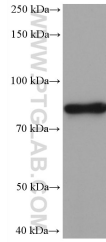
E: proteintech@ptglab.com  
W: ptglab.com

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

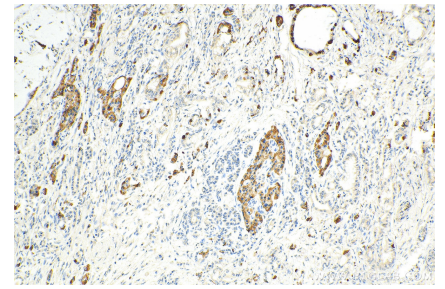
## Selected Validation Data



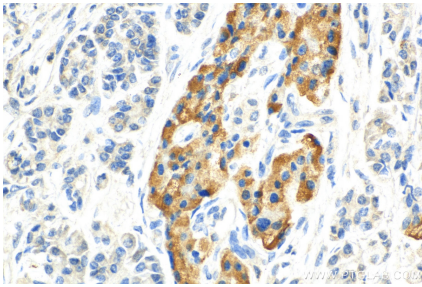
mouse pancreas tissue were subjected to SDS PAGE followed by western blot with 60135-2-Ig (CHGA antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



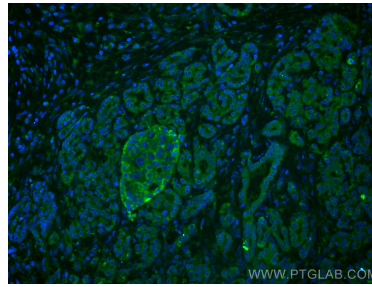
rat adrenal gland tissue were subjected to SDS PAGE followed by western blot with 60135-2-Ig (Chromogranin A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



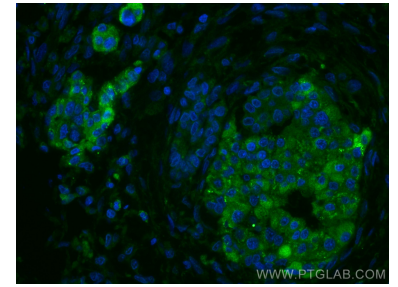
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 60135-2-Ig (CHGA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 60135-2-Ig (CHGA antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human pancreas cancer tissue using Chromogranin A antibody (60135-2-Ig, Clone: 2A7D11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human pancreas cancer tissue using Chromogranin A antibody (60135-2-Ig, Clone: 2A7D11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).