

For Research Use Only

Chromogranin A Monoclonal antibody

Catalog Number: 60135-2-Ig **6 Publications**



Basic Information

| | | |
|--|---|---|
| Catalog Number: 60135-2-Ig | GenBank Accession Number: BC006459 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 1113 | CloneNo.: 2A7D11 |
| Source: Mouse | UNIPROT ID: P10645 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:1000-1:4000 IF-P 1:200-1:800 IF/ICC 1:200-1:800 |
| Isotype: IgG1 | Full Name: chromogranin A (parathyroid secretory protein 1) | |
| Immunogen Catalog Number: AG0807 | Calculated MW: 51 kDa | |
| | Observed MW: 70-75 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA | Positive Controls: WB : rat adrenal gland tissue, SH-SY5Y cells |
| Cited Applications: WB, IF | IHC : human pancreas cancer tissue, human colon tissue |
| Species Specificity: human, mouse, rat, pig | IF-P : human pancreas cancer tissue, |
| Cited Species: human, mouse, rat, sheep | IF/ICC : 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 |
| Hongyu Wang | 39940725 | Int J Mol Sci | IF |
| Hongjia Li | 38287961 | Front Microbiol | IF |

Storage

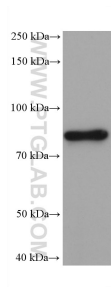
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

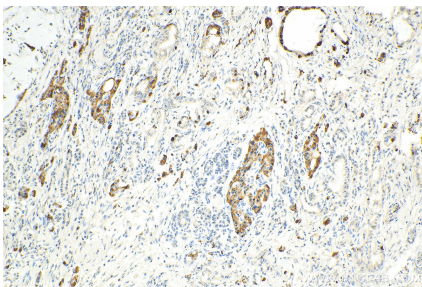
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

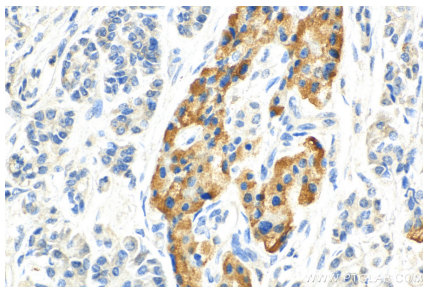
Selected Validation Data



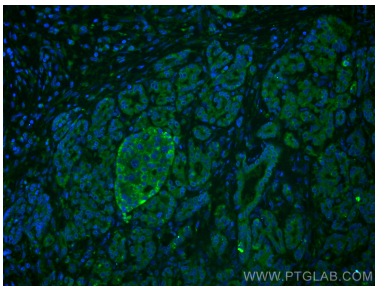
rat adrenal gland tissue were subjected to SDS PAGE followed by western blot with 60135-2-Ig (Chromogranin A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



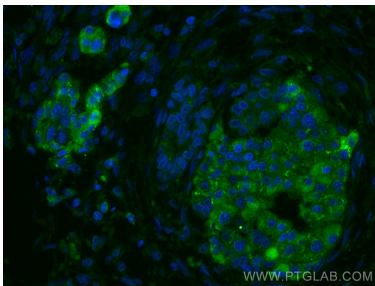
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 60135-2-Ig (CHGA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



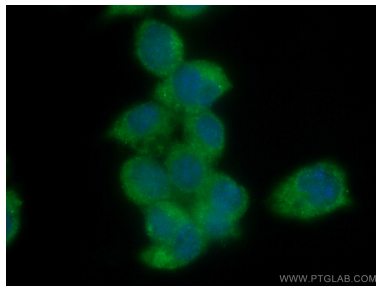
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 60135-2-Ig (CHGA antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of (-20°C Methanol) fixed Neuro-2a cells 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).