For Research Use Only

Chromogranin A Monoclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:60135-1-Ig 11 Publications

Basic Information

Catalog Number:
60135-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG0807

GenBank Accession Number:
BC006459

GeneID (NCBI):
1113

UNIPROT ID:
P10645

Full Name:
chromogranin A (parathyroid secretory protein 1)

Calculated MW:
51 kDa

Purification Method:
Protein A purification

CloneNo.:
3H11C11

Recommended Dilutions:
IHC 1:5000-1:80000
IF/ICC 1:50-1:500

Applications

Tested Applications:
IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse

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

Positive Controls:

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

IF/ICC : PC-12 cells,

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.

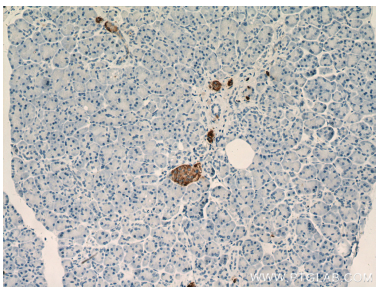
Notable Publications

Author	Pubmed ID	Journal	Application
Guifang He	33000273	Oncol Rep	WB
Qiuli Liu	33009820	J Pathol	WB,IHC
Trine Maxel	31197210	Sci Rep	WB

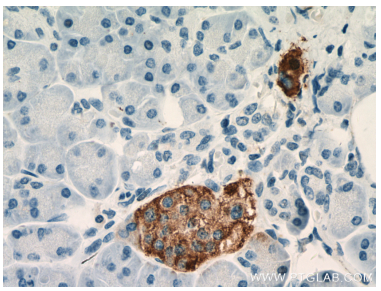
Storage

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

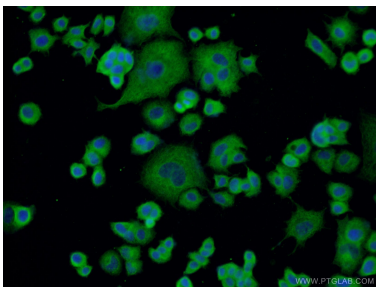
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 60135-1-Ig (Chromogranin A antibody) at dilution of 1:80000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 60135-1-Ig (Chromogranin A antibody) at dilution of 1:80000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using 60135-1-Ig (Chromogranin A antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

1X10^6 Neuro-2a cells were intracellularly stained with 0.4 ug Anti-Human Chromogranin A (60135-1-Ig, Clone:3H11C11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.