

**CMGA Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11784B****Specification**

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**CMGA Antibody (C-term) - Product Information**

Application	FC, IF, IHC-P, WB,E
Primary Accession	<a href="#">P10645</a>
Other Accession	<a href="#">NP_001266.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	50688
Antigen Region	376-404

**CMGA Antibody (C-term) - Additional Information****Gene ID** 1113**Other Names**

Chromogranin-A, CgA, Pituitary secretory protein I, SP-I, Vasostatin-1, Vasostatin I, Vasostatin-2, Vasostatin II, EA-92, ES-43, Pancreastatin, SS-18, WA-8, WE-14, LF-19, AL-11, GV-19, GR-44, ER-37, CHGA

**Target/Specificity**

This CMGA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 376-404 amino acids from the C-terminal region of human CMGA.

**Dilution**

FC~~1:10~50

IF~~1:10~50

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CMGA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CMGA Antibody (C-term) - Protein Information**

**Name** CHGA

**Function** [Pancreastatin]: Strongly inhibits glucose induced insulin release from the pancreas. [Serpinin]: Regulates granule biogenesis in endocrine cells by up-regulating the transcription of protease nexin 1 (SERPINE2) via a cAMP-PKA-SP1 pathway. This leads to inhibition of granule protein degradation in the Golgi complex which in turn promotes granule formation.

**Cellular Location**

[Serpinin]: Secreted {ECO:0000250|UniProtKB:P26339}. Cytoplasmic vesicle, secretory vesicle {ECO:0000250|UniProtKB:P26339}. Note=Pyroglutaminated serpinin localizes to secretory vesicle. {ECO:0000250|UniProtKB:P26339}

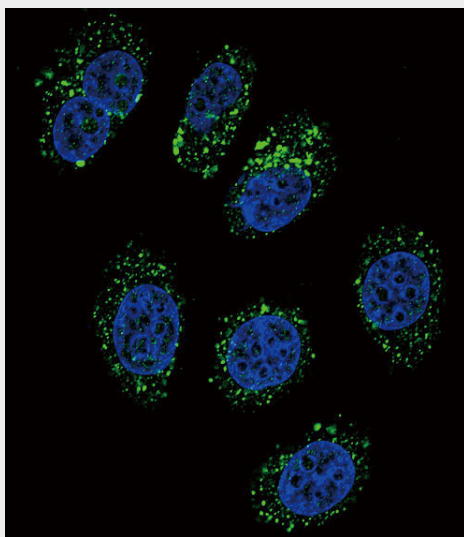
**Tissue Location**

Detected in cerebrospinal fluid (at protein level) (PubMed:25326458). Detected in urine (at protein level) (PubMed:37453717).

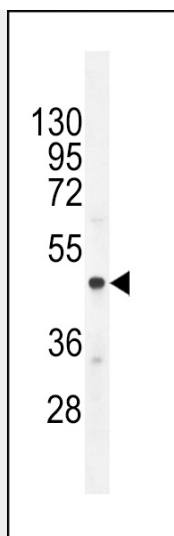
**CMGA Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

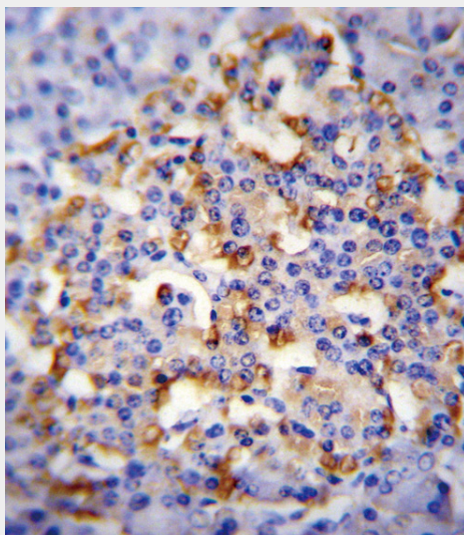
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CMGA Antibody (C-term) - Images**

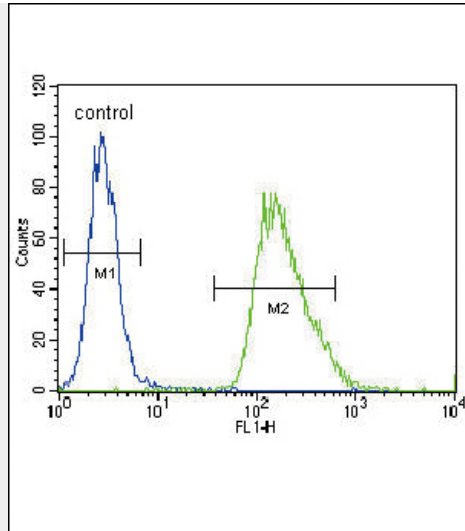
Confocal immunofluorescent analysis of CMGA Antibody (C-term)(Cat#AP11784b) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



CMGA Antibody (C-term) (Cat. #AP11784b) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the CMGA antibody detected the CMGA protein (arrow).



CMGA Antibody (C-term) (Cat. #AP11784b) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CMGA Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



CMGA Antibody (C-term) (Cat. #AP11784b) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **CMGA Antibody (C-term) - Background**

The protein encoded by this gene is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. It is found in secretory vesicles of neurons and endocrine cells. This gene product is a precursor to three biologically active peptides; vasostatin, pancreastatin, and parastatin. These peptides act as autocrine or paracrine negative modulators of the neuroendocrine system. Other peptides, including chromostatin, beta-granin, WE-14 and GE-25, are also derived from the full-length protein. However, biological activities for these molecules have not been shown.

#### **CMGA Antibody (C-term) - References**

Ezzi, S.A., et al. J. Neurochem. 115(5):1102-1111(2010)  
Ma, Z., et al. J. Urol. 184(3):1182-1188(2010)  
Ramella, R., et al. J. Cell. Biochem. 110(1):70-79(2010)  
Dag, E., et al. Peptides 31(5):932-937(2010)  
Xie, Y.Q., et al. Zhonghua Xin Xue Guan Bing Za Zhi 37(12):1081-1084(2009)