

Rabbit Anti-CHGA antibody

SL0539R

Product Name	CHGA
Chinese Name	嗜铬粒素 A 抗体
Alias	Chromogranin-A; Chromogranin A; beta Granin; CGA; CHG A; Chromogranin A parathyroid secretory protein 1; Chromogranin A precursor; ChromograninA; Pancreastatin; Parastatin; Parathyroid secretory protein 1; Pituitary secretory protein I; SP I; SP1; SPI; Vasostatin; ER-37; CMGA_HUMAN.
Research Area	Tumour
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat, IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:50-200,IF=1:100-500 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	48kDa
Cellular localization	cytoplasmic The cell membrane Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human CHGA: 421-470/457
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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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. [provided by RefSeq, Jul 2008].

Function:

Pancreastatin strongly inhibits glucose induced insulin release from the pancreas.

Subunit:

Interacts with SCG3.

Subcellular Location:

Cytoplasmic vesicle, secretory vesicle lumen. Cytoplasmic vesicle, secretory vesicle membrane. Secreted. Note=Associated with the secretory granule membrane through direct interaction to SCG3 that in turn binds to cholesterol-enriched lipid rafts in intragranular conditions.

Product Detail

Post-translational modifications:

Sulfated on tyrosine residues and/or contains sulfated glycans.
O-glycosylated with core 1 or possibly core 8 glycans.

Similarity:

Belongs to the chromogranin/secretogranin proteinfamily.

SWISS:

P10645

Gene ID:

1113

Database links:

[Entrez Gene: 1113](#) Human

[Entrez Gene: 12652](#) Mouse

[Omim: 118910](#) Human

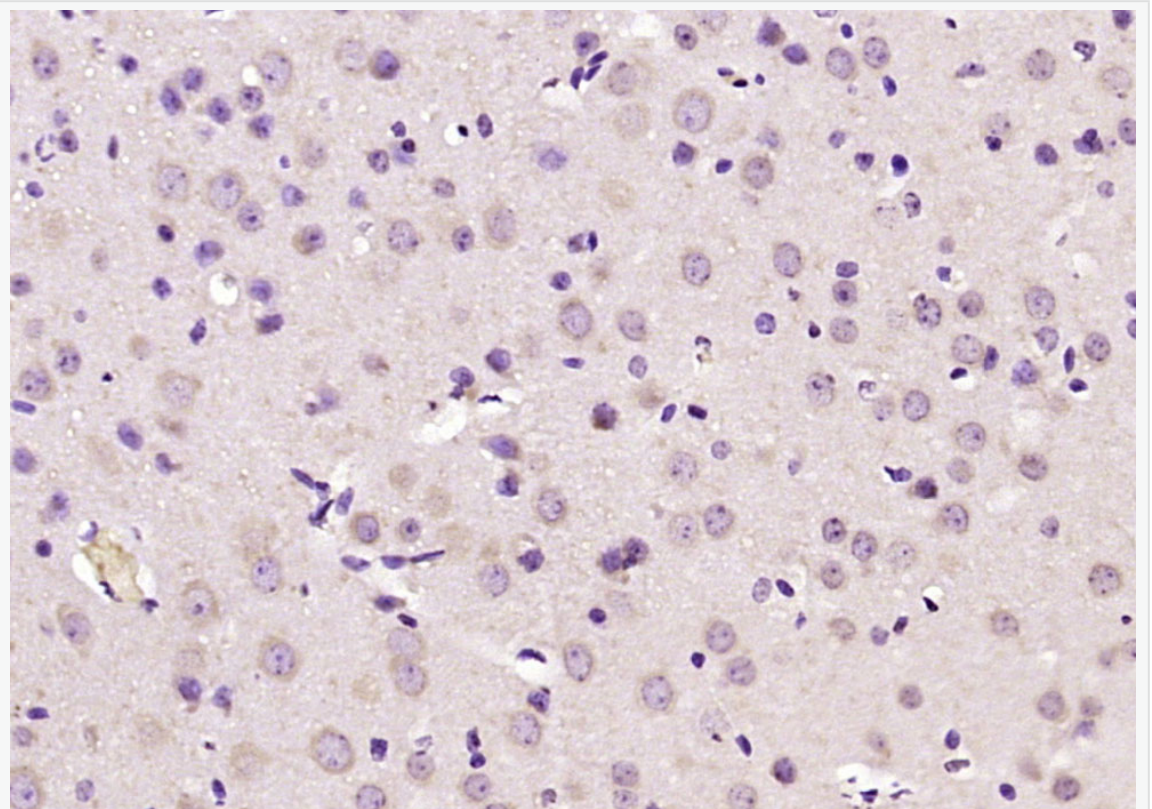
[SwissProt: P10645](#) Human

[SwissProt: P26339](#) Mouse

[Unigene: 150793](#) Human

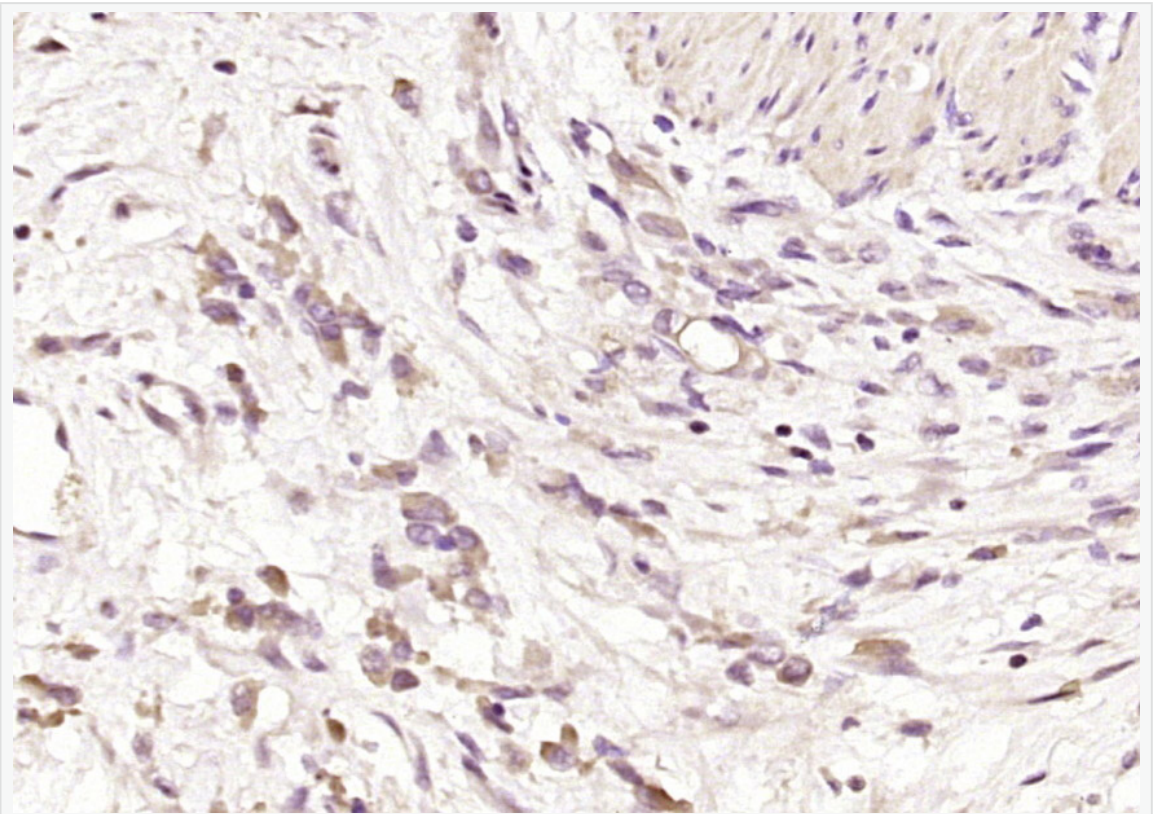
嗜铬粒素 A 蛋白存在与很多组织中：胃肠道内分泌细胞和类癌、甲状旁腺、垂体前叶、肾上腺髓质、神经节、副神经节、胰岛、甲状腺 C 细胞等组织和其来源的 Tumour 都表达该成分。嗜铬素 A (CgA) 属于可溶性的酸性蛋白，主要存在于神经内分泌细胞的分泌颗粒中，也存在于含有分泌颗粒的内分泌细胞和神经内分泌细胞来源的 Tumour 细胞中。检测循环中的免疫反应 CgA 对神经内分泌瘤具有诊断意义。另外，CgA 的免疫组织化学检测对鉴定来源于神经内分泌的 Tumour 起到辅助作用。

**Product
Picture**

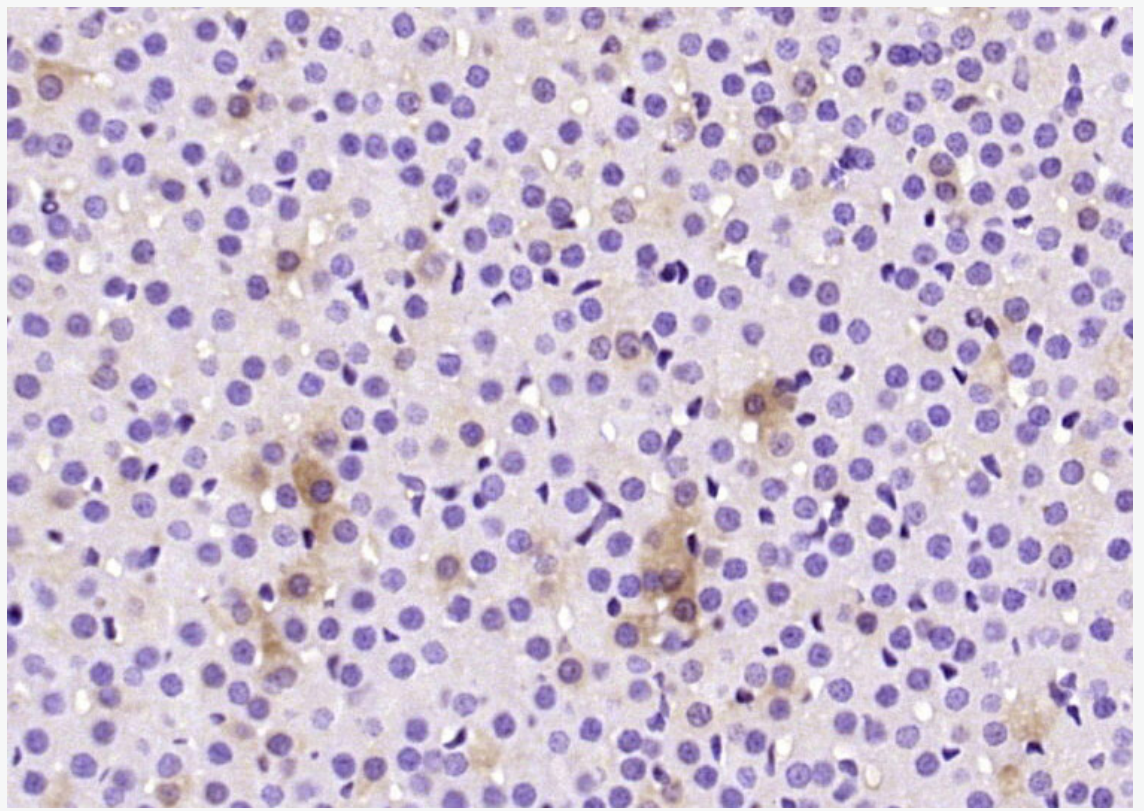


Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Chromogranin A) Polyclonal Antibody,

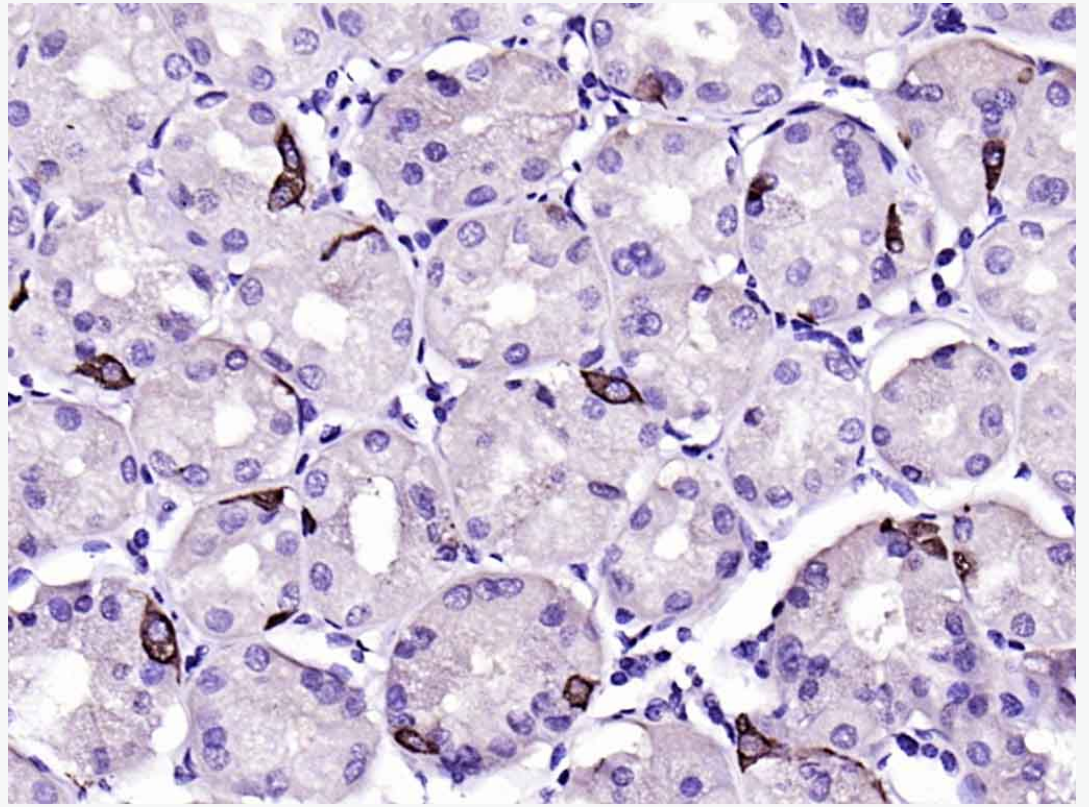
Unconjugated (SL0539R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



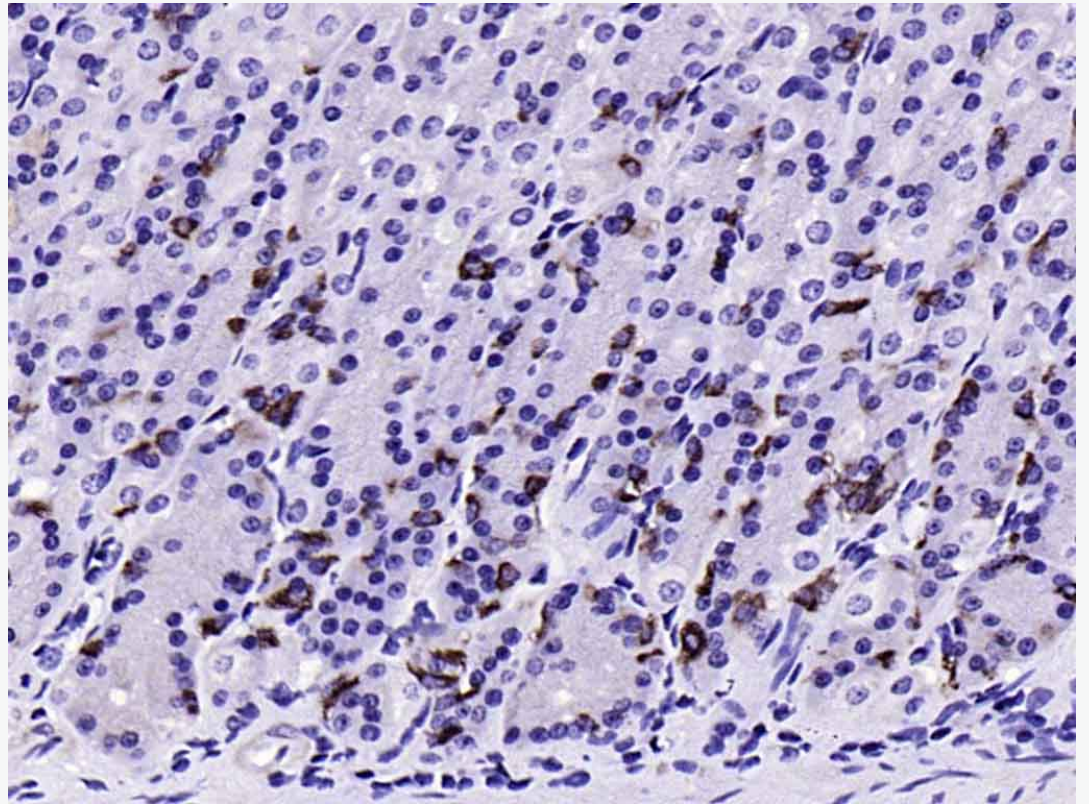
Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Chromogranin A) Polyclonal Antibody, Unconjugated (SL0539R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



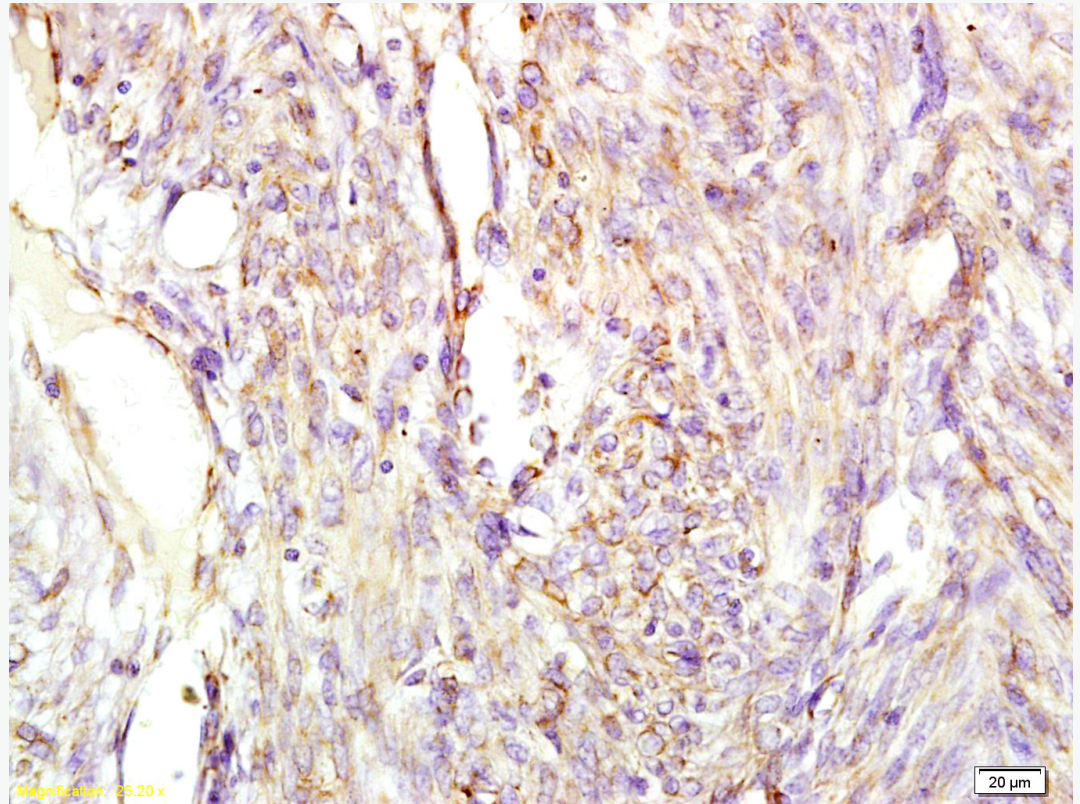
Paraformaldehyde-fixed, paraffin embedded (rat adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Chromogranin A) Polyclonal Antibody, Unconjugated (SL0539R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human gastric); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Chromogranin A) Polyclonal Antibody, Unconjugated (SL0539R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Chromogranin A) Polyclonal Antibody, Unconjugated (SL0539R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: human cervical carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CGA/Chromogranin A Polyclonal Antibody,

Unconjugated(SL0539R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining