

**Goat Anti-Chromogranin A precursor Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1243a****Specification**

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**Goat Anti-Chromogranin A precursor Antibody - Product Information**

|                   |  |
|-------------------|--|
| Application       | WB, E  |
| Primary Accession | <a href="#">P10645</a>                           |
| Other Accession   | <a href="#">NP_001266</a> , <a href="#">1113</a> |
| Reactivity        | Human  |
| Host              | Goat   |
| Clonality         | Polyclonal                                       |
| Concentration     | 100ug/200ul                                      |
| Isotype           | IgG  |
| Calculated MW     | 50688  |

**Goat Anti-Chromogranin A precursor Antibody - 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

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-Chromogranin A precursor Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-Chromogranin A precursor Antibody - 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).

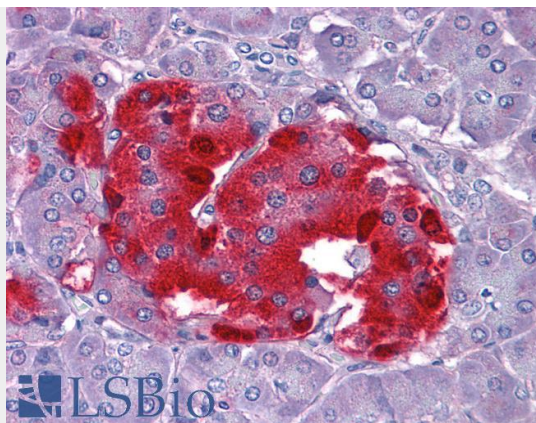
**Goat Anti-Chromogranin A precursor Antibody - Protocols**

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

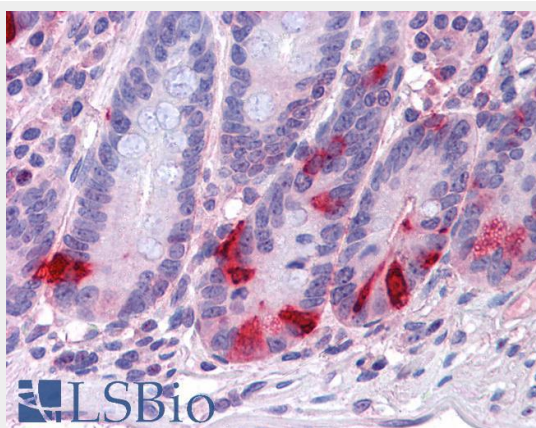
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-Chromogranin A precursor Antibody - Images**

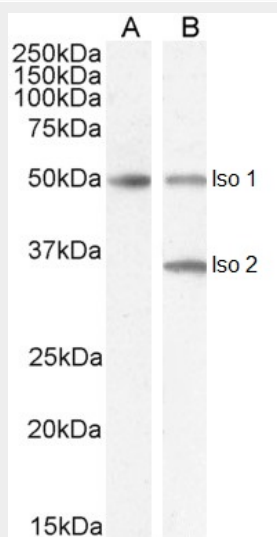
AF1243a (0.1 µg/ml) staining of isoform 1+ 2 Human Kidney lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.



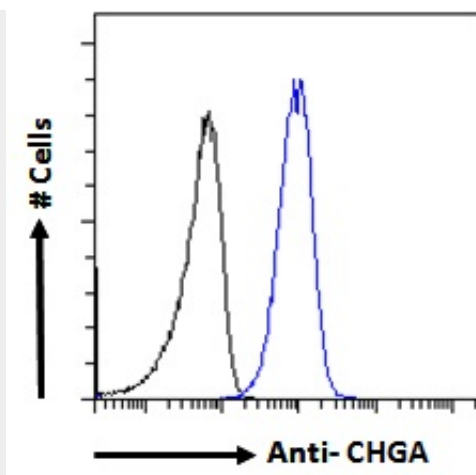
AF1243a (3.75  $\mu\text{g/ml}$ ) staining of paraffin embedded Human Pancreas. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF1243a (3.75  $\mu\text{g/ml}$ ) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF1243a (2  $\mu\text{g/ml}$ ) staining of isoform 1 Human Brain (A) and isoform 1+2 (B) lysate (35  $\mu\text{g}$  protein in RIPA buffer). Detected by chemiluminescence.



AF1243a Flow cytometric analysis of paraformaldehyde fixed A549 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fol

### Goat Anti-Chromogranin A precursor Antibody - 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.

### Goat Anti-Chromogranin A precursor Antibody - References

Clinical significance of polymorphism and expression of chromogranin a and endothelin-1 in prostate cancer. Ma Z, et al. J Urol, 2010 Sep. PMID 20663522.  
Vasostatin 1 activates eNOS in endothelial cells through a proteoglycan-dependent mechanism. Ramella R, et al. J Cell Biochem, 2010 May. PMID 20213742.  
[Association between expression of chromogranin A and myocardial fibrosis in patients with dilated cardiomyopathy] Xie YQ, et al. Zhonghua Xin Xue Guan Bing Za Zhi, 2009 Dec. PMID 20193177.  
Alteration in chromogranin A, obestatin and total ghrelin levels of saliva and serum in epilepsy cases. Dag E, et al. Peptides, 2010 May. PMID 20172008.  
Common genetic variants in the chromogranin a promoter are associated with renal injury in IgA nephropathy patients with malignant hypertension. Yu L, et al. Ren Fail, 2010 Jan. PMID 20113265.