



Product Specification Sheet

Somatostatin antibody

□ Cat # SST11-A

Rabbit anti-Human Somatostatin antibody

SIZE: 100 ug

Somatostatin is a peptide hormone that regulated the endocrine system and affects neurotransmission and cell proliferation by interaction with G protein-coupled somatostatin receptors. Somatostatin inhibits insulin and glucagon secretion. Somatostatin is first made as a single pre-cursor protein then cleaved into two active forms. One consisting of 14 amino acids, and the other of 28 amino acids.

Source of Antigen or Antibodies

Uniprot: P61278

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by peptide affinity purification

Immunogen: Synthetic peptide corresponding to Human Somatostatin-28 or amino acid 89-116 of the pre-cursor protein.

Species Reactivity: Human

Cross reactivity: The peptide used as an immunogen exhibits 100% homology with the following species. Monkey, Mouse, Rat, Pig, Chicken, Horse, Dog, Bovine, Sheep. 96% with Cat.

Subcellular Location: Extracellular or secreted

Alternative names: Growth hormone release-inhibiting factor

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (**ADI cat#20320**)

Negative Control: Non-immune Rabbit IgG (**ADI cat# 20009-1**).

Form & Storage of Antibodies

□ **Affinity pure IgG Solution**

Concentration: 0.5 mg/ml Volume: 200 µl
Supplied in PBS pH 7.4 + 0.1% BSA
*Antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

□ **Lyophilized powder**

Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

Recommended Usage

ELISA: Assay dependent concentration. Typically 0.1-2.0 µg/ml for capture or detection antibody. The polyclonal antibody may be used as both capture and detection.

Western Blotting: 0.5-1 µg/ml

Immunohistochemistry: 1-5 µg/ml.

*Above concentrations are a *suggestion*, user's must optimize their assay based on their conditions. The antibody may work in other applications such as Immunocytochemistry. These methods have not been tested by ADI.

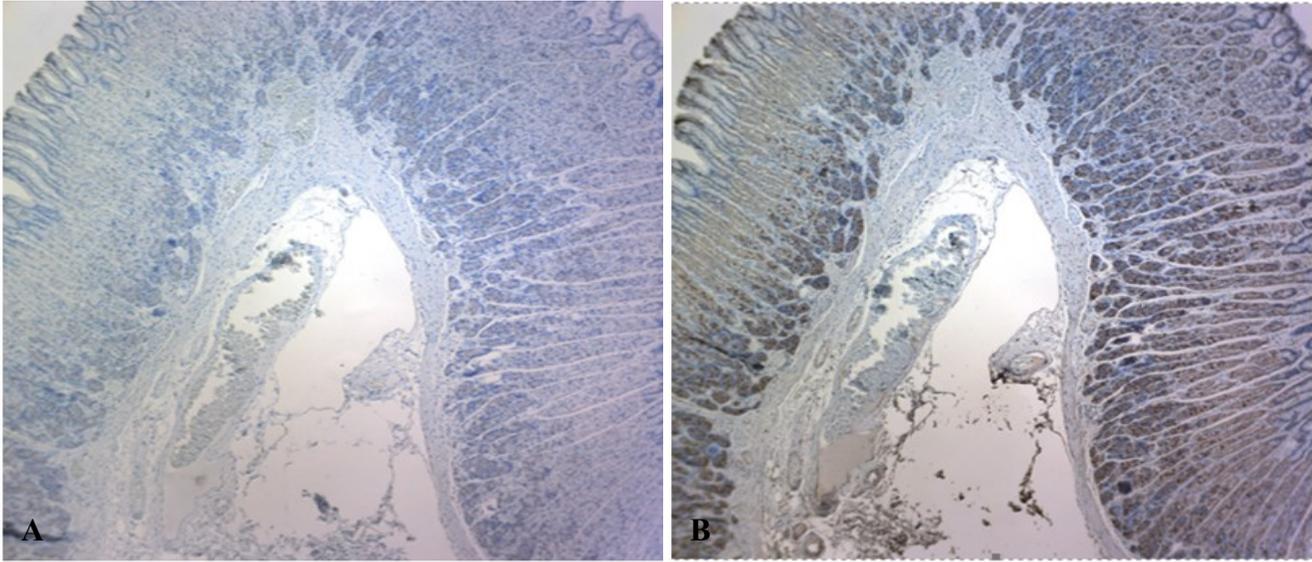
**This product is for In vitro research use only.*

Related materials available from ADI

Glucagon, GFP, Calretinin, and Neuropeptide Y antibodies are also available from ADI

SST11-A

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FFPE Human Stomach: Stomach tissue was heated for 20 minutes at 60°C then deparaffinized. Antigen retrieval was performed for 10 minutes at 95°C in a microwave using 10 mM pH 6, sodium citrate buffer. The slide was cooled for 20 minutes at room temperature then blocked for 30 minutes with 2.5% normal goat serum. The tissue was incubated with **Figure A)** Peptide pre-absorbed **SST11-A** and **Figure B)** **SST11-A** diluted to 5 ug/ml in TBST+0.1% BSA overnight at 4°C. The slide was washed twice and then incubated with 3% hydrogen peroxide for 10 minutes. The slide was washed then incubated with Goat anti-Rabbit IgG HRP polymer detection reagent for 30 minutes at room temperature. The slide was washed twice and incubated with DAB for 3 minutes, washed with distilled water, then counterstained for 1 minute with Gil's II Hematoxylin before being coverslipped.