

Secretin Antibody
Rabbit Polyclonal Antibody
Catalog # ALS15312**Specification**

Secretin Antibody - Product Information

Application	IHC
Primary Accession	P09683
Reactivity	Human, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	13kDa KDa

Secretin Antibody - Additional Information**Gene ID** 6343**Other Names**
Secretin, SCT**Target/Specificity**
Antigen localized in cytoplasm. Positive control: Duodenum.**Reconstitution & Storage**
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.**Precautions**
Secretin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**Secretin Antibody - Protein Information****Name** SCT {ECO:0000303|PubMed:11060443, ECO:0000312|HGNC:HGNC:10607}**Function**
Hormone involved in different processes, such as regulation of the pH of the duodenal content, food intake and water homeostasis (PubMed:25332973). Exerts its biological effects by binding to secretin receptor (SCTR), a G-protein coupled receptor expressed in the basolateral domain of several cells (PubMed:25332973). Acts as a key gastrointestinal hormone by regulating the pH of the duodenal content (By similarity). Secreted by S cells of the duodenum in the crypts of Lieberkuehn and regulates the pH of the duodenum by (1) inhibiting the secretion of gastric acid from the parietal cells of the stomach and (2) stimulating the production of bicarbonate (NaHCO₃) from the ductal cells of the pancreas (By similarity). Production of bicarbonate is essential to neutralize the pH and ensure no damage is done to the small intestine by the gastric acid (By similarity). In addition to regulating the pH of the duodenal content, plays a central role in diet induced thermogenesis: acts as a non-sympathetic brown fat (BAT) activator mediating prandial thermogenesis, which consequentially induces satiation (Probable). Mechanistically, secretin released by the gut after a

meal binds to secretin receptor (SCTR) in brown adipocytes, activating brown fat thermogenesis by stimulating lipolysis, which is sensed in the brain and promotes satiation (By similarity). Also able to stimulate lipolysis in white adipocytes (By similarity). Also plays an important role in cellular osmoregulation: released into the systemic circulation in response to hyperosmolality and acts at different levels in the hypothalamus, pituitary and kidney to regulate water homeostasis (By similarity). Also plays a role in the central nervous system, possibly by acting as a neuropeptide hormone: required for hippocampal synaptic function and neural progenitor cells maintenance (By similarity).

Cellular Location

Secreted {ECO:0000269|Ref.2}.

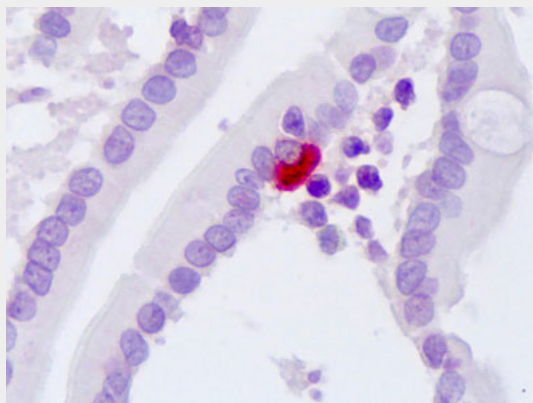
Volume

50 µl

Secretin 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](#)

Secretin Antibody - Images

Anti-Secretin antibody IHC of human small intestine, neuroendocrine cell.

Secretin Antibody - Background

Stimulates formation of NaHCO₃-rich pancreatic juice and secretion of NaHCO₃-rich bile and inhibits HCl production by the stomach.

Secretin Antibody - References

Whitmore T.E., et al. Cytogenet. Cell Genet. 90:47-52(2000).
Carlquist M., et al. IRCS Med. Sci. 13:217-218(1985).

