

Secretin Antibodies

Cat. # SECR11-P	Human SECR control/blocking I Peptide # 1	SIZE: 100 ug
Cat. # SECR11-A	Rabbit Anti- Human SECR Ig G # 1 (aff pure)	SIZE: 100 ug

Glucagon is a member of a multigene family comprising of Secretin, Vasoactive Intestinal Peptide (VIP), Gastric Inhibitory Peptide (GIP) and others like Glicentin and Oxyntomodulin (OXM), which differs from glucagon by C-terminal octapeptide. The glucagon precursor contains at least 3 intervening sequences that divide the protein-coding portion into 4 regions corresponding to the signal peptide and part of the N-terminal peptide, the remainder of the N-terminal peptide and glucagon, glucagon-like peptide-1 (GLP1), and GLP2.

SECR, Secretin is a 27-amino acid hormone (chr 11p15) produced by specific endocrine cells, S cells, located in the mucosa of the proximal small intestine. It has been known to be a potent stimulus for the secretion of bicarbonate-rich pancreatic juice. Secretion of secretin is stimulated by the presence of either acidic pH or fatty acids in the duodenum. Secretin stimulates ductal bile secretion by directly interacting with cholangiocytes, promotes osmotic water movement in cholangiocytes by inducing the exocytic insertion of AQP1 into plasma membranes.

Protein name Secretin [Precursor]

Synonyms None

Gene name Name: SCT

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

SUBCELLULAR LOCATION: Secreted.

SIMILARITY: Belongs to the glucagon family

Source of Antigen and Antibodies

Antigen	11aa peptide of Human SECR; (protein accession #P09683 , refs 1) Designated (SECR11-P or control peptide) conjugated to KLH; Epitope location ~ Middle region
Ab Host/type	Rabbit, polyclonal Aff pure IgG (cat #SECR11-A) purified over antigen-agarose column
2-ab	Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control
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Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified)

100ul solution lyophilized powder
Supplied in Buffer: 0.05% azide
Reconstitute powder in 100 ul PBS

Affinity pure IgG

100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

100 ug/100 ul solution lyophilized powder
Supplied in Buffer: PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder

Recommended Usage

Western Blotting (1-10 ug/ml for affinity pure IgG using Chemiluminescence technique).

ELISA: Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (0.5-1 ug/ml for affinity pure).

Histochemistry: not tested. We recommend the use of affinity purified antibody at 2-10 ug/ml.

Specificity & Cross-reactivity

The hSECR-P control peptide shows 100% sequence homology with rat, mouse, and pig secretin. Actual cross-reactivity of antibodies in various species has not been studied. The Control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity

General References:

Whitmore TE et al (2000) Cytogenet cell genet 90(1-2): 47-52.

*This product is for In vitro research use only.

Related material available from ADI

Antibodies for Glucagon, GLP1 &2, GIP, OXM and GRF.

SECR11-A-P 709119J