

## Product datasheet

# Anti-Glicentin antibody ab8493

### Overview

<b>Product name</b>	Anti-Glicentin antibody
<b>Description</b>	Rabbit polyclonal to Glicentin
<b>Specificity</b>	This glicentin antibody is reactive with glucagon as well as glicentin. Glicentin contains the glucagon sequence and is produced in endocrine cells of the distal intestine, in pancreatic glucagon cells and in nerves in the brain.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IHC-Fr, Dot blot
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	Porcine pancreatic Glucagon/BSA
<b>Positive control</b>	Pancreas and small intestine

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Liquid antiserum
<b>Purity</b>	Whole antiserum
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	unknown
<b>Light chain type</b>	unknown

### Applications

Our [Abpromise guarantee](#) covers the use of **ab8493** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		
IHC-P		

Application	Abreviews	Notes
IHC-Fr		
Dot blot		
<b>Application notes</b>	<p>This antibody can be used for the diagnosis of tumours from the distal intestine (rectal carcinoids) as well as pancreatic islet cell tumours.</p> <p>This antibody is suitable for paraffin embedded tissues without enzymatic antigen retrieval. Advised working dilution is 1:50.</p> <p>Dilution buffer is 0.15 M PBS with 1.0% Ovalbumin and 0.1% sodium azide.</p> <p>Optimal dilution should be tested by serial dilution.</p>	
<b>Target</b>		
<b>Function</b>	<p>Glucagon plays a key role in glucose metabolism and homeostasis. Regulates blood glucose by increasing gluconeogenesis and decreasing glycolysis. A counterregulatory hormone of insulin, raises plasma glucose levels in response to insulin-induced hypoglycemia. Plays an important role in initiating and maintaining hyperglycemic conditions in diabetes.</p> <p>GLP-1 is a potent stimulator of glucose-dependent insulin release. Play important roles on gastric motility and the suppression of plasma glucagon levels. May be involved in the suppression of satiety and stimulation of glucose disposal in peripheral tissues, independent of the actions of insulin. Have growth-promoting activities on intestinal epithelium. May also regulate the hypothalamic pituitary axis (HPA) via effects on LH, TSH, CRH, oxytocin, and vasopressin secretion. Increases islet mass through stimulation of islet neogenesis and pancreatic beta cell proliferation. Inhibits beta cell apoptosis.</p> <p>GLP-2 stimulates intestinal growth and up-regulates villus height in the small intestine, concomitant with increased crypt cell proliferation and decreased enterocyte apoptosis. The gastrointestinal tract, from the stomach to the colon is the principal target for GLP-2 action. Plays a key role in nutrient homeostasis, enhancing nutrient assimilation through enhanced gastrointestinal function, as well as increasing nutrient disposal. Stimulates intestinal glucose transport and decreases mucosal permeability.</p> <p>Oxyntomodulin significantly reduces food intake. Inhibits gastric emptying in humans. Suppression of gastric emptying may lead to increased gastric distension, which may contribute to satiety by causing a sensation of fullness.</p> <p>Glicentin may modulate gastric acid secretion and the gastro-pyloro-duodenal activity. May play an important role in intestinal mucosal growth in the early period of life.</p>	
<b>Tissue specificity</b>	<p>Glucagon is secreted in the A cells of the islets of Langerhans. GLP-1, GLP-2, oxyntomodulin and glicentin are secreted from enteroendocrine cells throughout the gastrointestinal tract. GLP1 and GLP2 are also secreted in selected neurons in the brain.</p>	
<b>Sequence similarities</b>	<p>Belongs to the glucagon family.</p>	
<b>Post-translational modifications</b>	<p>Proglucagon is post-translationally processed in a tissue-specific manner in pancreatic A cells and intestinal L cells. In pancreatic A cells, the major bioactive hormone is glucagon cleaved by PCSK2/PC2. In the intestinal L cells PCSK1/PC1 liberates GLP-1, GLP-2, glicentin and oxyntomodulin. GLP-1 is further N-terminally truncated by post-translational processing in the intestinal L cells resulting in GLP-1(7-37) GLP-1-(7-36)amide. The C-terminal amidation is neither important for the metabolism of GLP-1 nor for its effects on the endocrine pancreas.</p>	
<b>Cellular localization</b>	<p>Secreted.</p>	
<b>Form</b>	<p>Cleaved into the following 8 chains: 1.Glicentin; 2.Glicentin-related polypeptide = GRPP;</p>	

3.Oxyntomodulin = OXM = OXY; 4.Glucagon; 5.Glucagon-like peptide 1 = GLP-1; 6.Glucagon-like peptide 1(7-37) = GLP-1(7-37); 7.Glucagon-like peptide 1(7-36) = GLP-1(7-36); 8.Glucagon-like peptide 2 = GLP-2.

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