

## Product datasheet

### Anti-Glucagon antibody [EP3070] ab92517

Recombinant RabMAb

★★★★★ [8 Abreviews](#) [63 References](#) [10 Images](#)

#### Overview

<b>Product name</b>	Anti-Glucagon antibody [EP3070]
<b>Description</b>	Rabbit monoclonal [EP3070] to Glucagon
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human Glucagon aa 50-150 (N terminal). The exact sequence is proprietary.
<b>Positive control</b>	IHC-P: Murine, human, and rat pancreatic tissue. WB: Capan-1 cell lysate, Mouse and rat pancreas tissue lysate
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 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 long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP3070

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab92517 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	★★★★★ (1)	Use a concentration of 0.3 µg/ml. Predicted molecular weight: 21 kDa.
IHC-P	★★★★★ (4)	1/8000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b> . <b>For unpurified use at 1/1000 - 1/5000.</b>

## Target

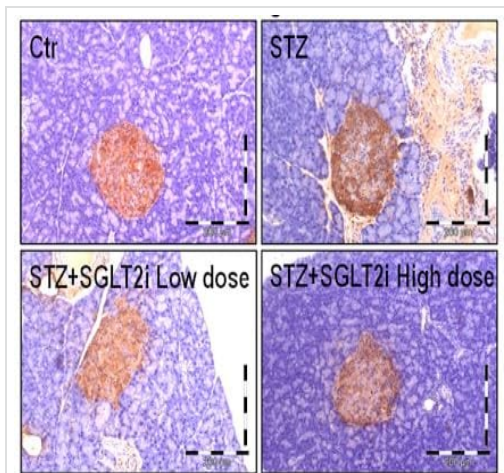
### Relevance

Glucagon is a hormone that is secreted by alpha cells in the pancreas. Glucagon antagonizes insulin by converting glycogen to glucose in the liver and increasing blood sugar levels. Glucagon-like peptide 1 (GLP1), Glucagon-like peptide 2 (GLP2), VIP (vasoactive intestinal peptide) and PACAP (pituitary adenylyl cyclase activating polypeptide) are in the glucagons hormone family. GLP1 is a transmitter in the central nervous system that regulates feeding and drinking behavior. GLP2 stimulates intestinal epithelial growth.

### Cellular localization

Secreted

## Images

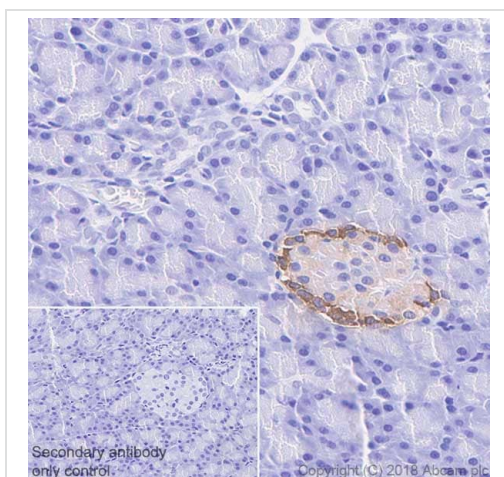


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glucagon antibody

[EP3070] (ab92517)

Image from Oelze Met al., PLoS One. 2014;9(11):e112394. Fig 1.; doi: 10.1371/journal.pone.0112394. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

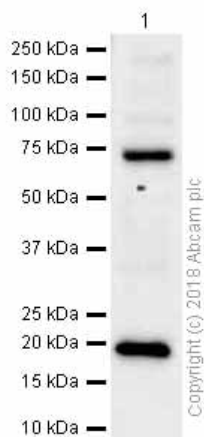
Glucagon measurements in controls and diabetic rats 8 weeks after STZ injection and 7 weeks of SGLT2i (low and high dose) treatment. Representative immunohistochemical stainings of pancreatic tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glucagon antibody

[EP3070] (ab92517)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat pancreas tissue sections labeling Glucagon with Purified ab92517 at 1:8000 dilution (0.038 µg/ml). Heat mediated antigen retrieval was performed using using citrate (pH 6.0)Goat Anti-Rabbit IgG H&L (HRP) **ab97051**was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylinwas used as a counterstain



Western blot - Anti-Glucagon antibody [EP3070]  
(ab92517)

Anti-Glucagon antibody [EP3070] (ab92517) at 0.3 µg/ml (purified)  
+ Capan-1 (Human pancreas adenocarcinoma epithelial cell) whole  
cell lysates at 15 µg

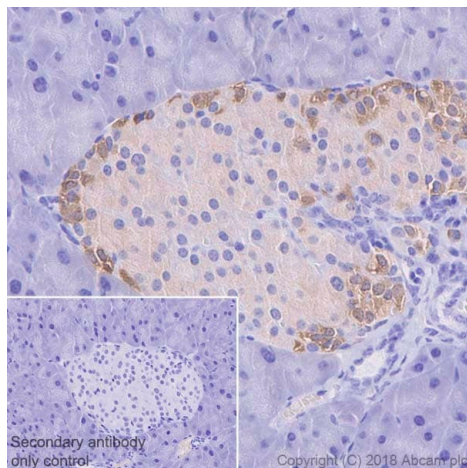
### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 21 kDa

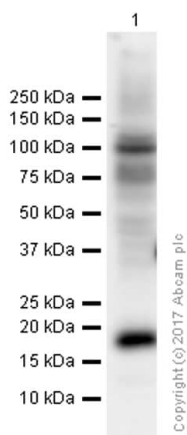
Blocking and diluting buffer: 5% NFDM/TBST.

The bands around 75 kDa are non-specific signals.



Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Glucagon antibody  
[EP3070] (ab92517)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded  
sections) analysis of Mouse pancreas tissue sections labeling  
Glucagon with Purified ab92517 at 1:8000 dilution (0.038 µg/ml).  
Heat mediated antigen retrieval was performed using using citrate  
(pH 6.0)Goat Anti-Rabbit IgG H&L (HRP) [ab97051](#)was used as the  
secondary antibody.Negative control:PBS instead of the primary  
antibody.Hematoxylinwas used as a counterstain



Western blot - Anti-Glucagon antibody [EP3070]  
(ab92517)

Anti-Glucagon antibody [EP3070] (ab92517) at 0.3 µg/ml (purified)  
+ Mouse pancreas lysates at 20 µg

### Secondary

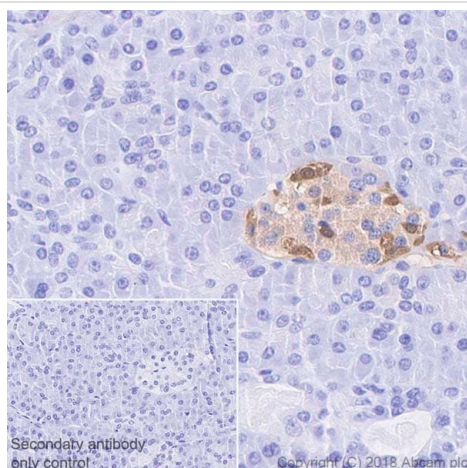
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with  
human IgG at 1/2000 dilution

**Predicted band size:** 21 kDa

**Observed band size:** 21 kDa

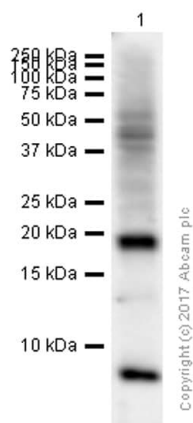
Blocking and diluting buffer: 5% NFDM/TBST.

The bands around 75 kDa are non-specific signals.



Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Glucagon antibody  
[EP3070] (ab92517)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded  
sections) analysis of Human pancreas tissue sections labeling  
Glucagon with Purified ab92517 at 1:8000 dilution (0.038 µg/ml).  
Heat mediated antigen retrieval was performed using using citrate  
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Western blot - Anti-Glucagon antibody [EP3070]  
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Anti-Glucagon antibody [EP3070] (ab92517) at 0.3 µg/ml (purified)  
+ Rat pancreas lysates at 15 µg

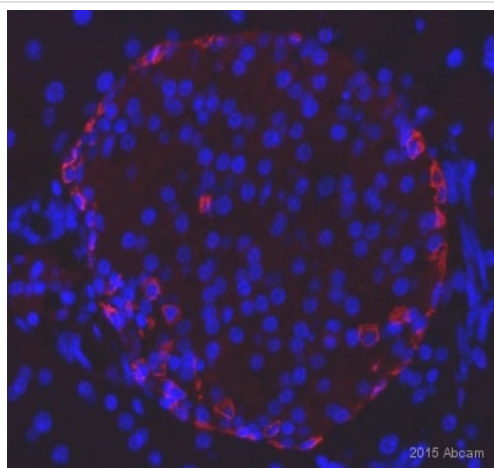
### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 21 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

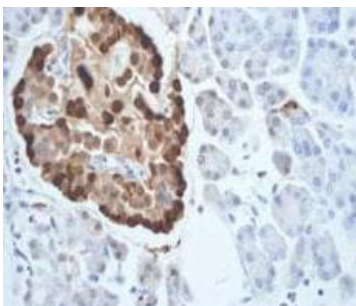
The bands around 75 kDa are non-specific signals.



Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Glucagon antibody  
[EP3070] (ab92517)

Image is courtesy of an anonymous AbReview.

Immunohistochemical analysis of PFA-fixed paraffin-embedded murine pancreatic tissue sections, labelling glucagon with unpurified ab92517 at a dilution of 1/2500 incubated for 18 hours at 4°C. Antigen retrieval was performed through heat-mediated 10mM sodium citrate pH 6.0 incubation. Blocking was done with 5% serum for 1 hour at 25°C. The secondary was a donkey anti-rabbit polyclonal Alexa Fluor® 488 conjugate at 1/400. Counterstaining is with DAPI (blue) against nuclear DNA.



Unpurified ab92517, at 1/1000 dilution, staining Glucagon in paraffin embedded Human pancreas tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glucagon antibody [EP3070] (ab92517)

Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Glucagon antibody [EP3070] (ab92517)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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