abcam

Product datasheet

Anti-Pancreatic Polypeptide antibody [EPR22853-61] - BSA and Azide free ab256592

Recombinant RabMAb

6 Images

Overview

Product name	Anti-Pancreatic Polypeptide antibody [EPR22853-61] - BSA and Azide free
Description	Rabbit monoclonal [EPR22853-61] to Pancreatic Polypeptide - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, IHC-Fr, mIHC **Unsuitable for:** IP or WB
Species reactivity	**Reacts with:** Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Mouse pancreas tissue; rat pancreas tissue. IHC-Fr: Mouse pancreas tissue; rat pancreas tissue. mIHC: Rat pancreas tissue.
General notes	ab256592 is the carrier-free version of **ab255827**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22853-61
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab256592 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		Use at an assay dependent concentration. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
mIHC		1/20000.

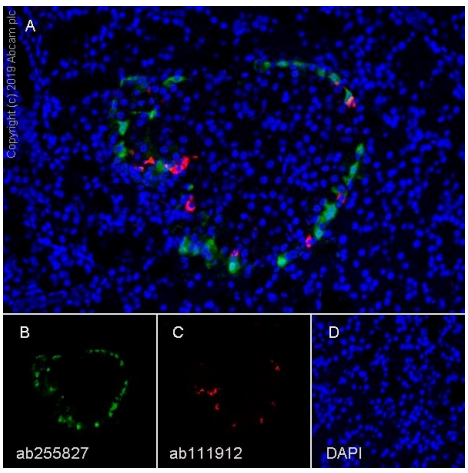
Application notes Is unsuitable for IP or WB.

Target

Relevance Pancreatic hormone is synthesized in pancreatic islets of Langerhans and acts as a regulator of pancreatic and gastrointestinal functions and may be important in the regulation of food intake. Plasma levels of this hormone have been shown to be reduced in conditions associated with increased food intake and elevated in anorexia nervosa. In addition, infusion of this hormone in obese rodents has shown to decrease weight gain.

Cellular localization Secreted

Images



Multiplex immunohistochemistry - Anti-Pancreatic Polypeptide antibody [EPR22853-61] - BSA and Azide free (ab256592)

This data was developed using the same antibody clone in a different buffer formulation (**ab255827**).

Multiplex immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat pancreas tissue.

Panel A: Merged staining of anti-Pancreatic Polypeptide (**ab255827**, green), anti-Somatostatin 28 (**ab111912**, red) and DAPI (blue).

Panel B: Anti-Pancreatic Polypeptide (green) stained on PP cells in rat pancreas islet.

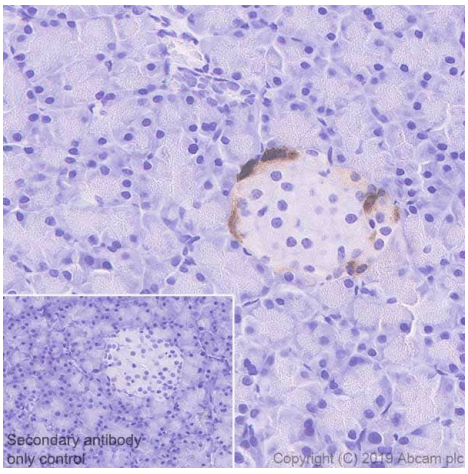
Panel C: Anti-Somatostatin 28 (red) stained on delta cells in rat pancreas islet.

Panel D: Nuclear counter stain, DAPI (blue).

Key protocol steps: The section was incubated in two rounds of staining with **ab255827** (1/20000 dilution) and **ab111912** (1/2000 dilution) for 30 mins at room temperature. Each round was followed by tyramide signal amplification with the appropriate fluorophore. Heat mediated antigen retrieval was used (Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins after every round of antibody/fluorophore staining.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

A ready-to-use anti-Rabbit and Mouse Polymer HRP was used as a secondary.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Pancreatic Polypeptide antibody [EPR22853-61] - BSA and Azide free (ab256592)

Immunohistochemical analysis of paraffin-embedded rat pancreas tissue labeling Pancreatic Polypeptide with **ab255827** at 1/5000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on PP cells in rat pancreas islet (PMID: 27270601) is observed. Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

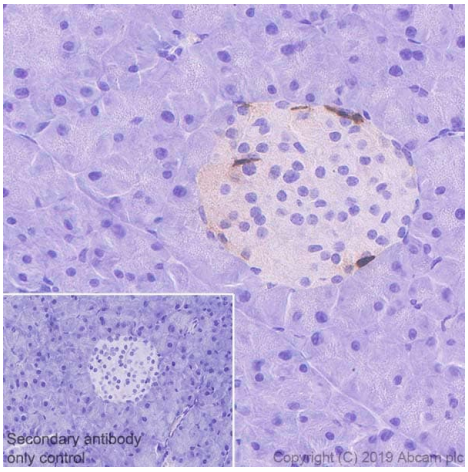
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with **ab255827** for 10 mins at RT.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

This data was developed using the same antibody clone in a

different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab255827**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Pancreatic Polypeptide antibody [EPR22853-61] - BSA and Azide free (ab256592)

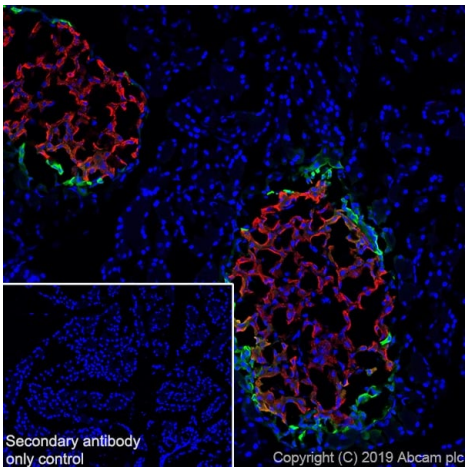
Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue labeling Pancreatic Polypeptide with **ab255827** at 1/5000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on PP cells in mouse pancreas islet (PMID: 27270601) is observed. Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with **ab255827** for 10 mins at RT.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab255827**).



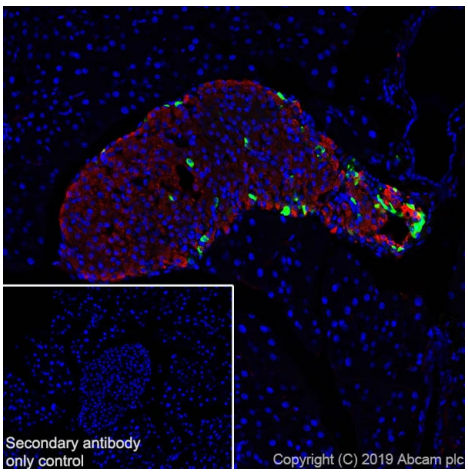
Immunohistochemistry (Frozen sections) - Anti-Pancreatic Polypeptide antibody [EPR22853-61] - BSA and Azide free (ab256592)

Immunohistochemical analysis of frozen section of 4%PFA-fixed, 0.2% Triton X-100 permeabilized rat pancreas tissue labeling Pancreatic Polypeptide with **ab255827** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). **ab255827** and **ab6995** are shown to stain PP cells and beta cells of rat pancreatic islets respectively (PMID: 24825414). The nuclear counter stain is DAPI (blue). Insulin is detected using **ab6995**, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) at 1/1000 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab255827**).



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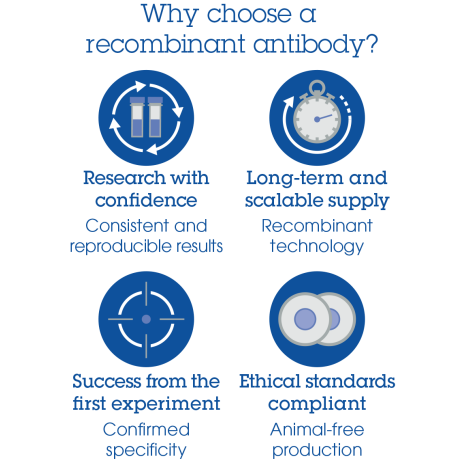

Anti-Pancreatic Polypeptide antibody [EPR22853-61] - BSA and Azide free (ab256592)

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