

## **REG3A Antibody (N-term)**

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9210a

## **Specification**

## **REG3A Antibody (N-term) - Product Information**

Application
WB, FC,E
Primary Accession
Reactivity
Host
Clonality
Isotype
Antigen Region
WB, FC,E
Q06141
Human
Rabbit
Polyclonal
Rabbit IgG
Antigen Region

# **REG3A Antibody (N-term) - Additional Information**

### **Gene ID 5068**

#### **Other Names**

Regenerating islet-derived protein 3-alpha, REG-3-alpha, Hepatointestinal pancreatic protein, HIP/PAP, Human proislet peptide, Pancreatitis-associated protein 1, Regenerating islet-derived protein III-alpha, Reg III-alpha, Regenerating islet-derived protein 3-alpha 165 kDa form, Regenerating islet-derived protein 3-alpha 15 kDa form, REG3A, HIP, PAP, PAP1

### Target/Specificity

This REG3A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-39 amino acids from the N-terminal region of human REG3A.

## **Dilution**

WB~~1:1000 FC~~1:10~50

E~~Use at an assay dependent concentration.

## **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

REG3A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## **REG3A Antibody (N-term) - Protein Information**

Name REG3A (HGNC:8601)



**Function** [Regenerating islet-derived protein 3-alpha 15 kDa form]: Bactericidal C-type lectin which acts exclusively against Gram-positive bacteria and mediates bacterial killing by binding to surface-exposed carbohydrate moieties of peptidoglycan (PubMed:16931762). Binds membrane phospholipids and kills bacteria by forming a hexameric membrane-permeabilizing oligomeric pore (PubMed:24256734).

#### **Cellular Location**

Secreted. Note=Found in the apical region of pancreatic acinar cells

### **Tissue Location**

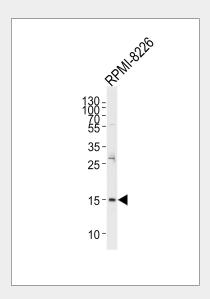
Expressed by keratinocytes (PubMed:27830702). Highly expressed in epidermal keratinocytes of psoriasis patients (at protein level) (PubMed:22727489). Constitutively expressed in intestine. Low expression is found in healthy pancreas. Overexpressed during the acute phase of pancreatitis and in some patients with chronic pancreatitis (PubMed:1469087).

## **REG3A Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

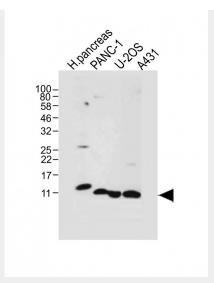
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## **REG3A Antibody (N-term) - Images**

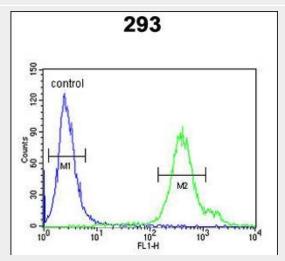


Western blot analysis of lysate from RPMI-8226 cell line, using REG3A Antibody (N-term)(Cat. #AP9210a). AP9210a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.





All lanes: Anti-REG3A Antibody (N-term) at 1:1000 dilution Lane 1: Human pancreas tissue lysate Lane 2: PANC-1 whole cell lysate Lane 3: U-2OS whole cell lysate Lane 4: A431 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



REG3A Antibody (N-term) (Cat. #AP9210a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## REG3A Antibody (N-term) - Background

REG3A encodes a pancreatic secretory protein that may be involved in cell proliferation or differentiation. It has similarity to the C-type lectin superfamily. The enhanced expression of this protein is observed during pancreatic inflammation and liver carcinogenesis.

# **REG3A Antibody (N-term) - References**

Medveczky,P., et.al., Biochem. J. 420 (2), 335-343 (2009) Scott,L.J., et.al, Proc. Natl. Acad. Sci. U.S.A. 106 (18), 7501-7506 (2009) Mukherjee,S., et.sl., J. Biol. Chem. 284 (8), 4881-4888 (2009)