

For Research Use Only

# Progranulin/PGRN Polyclonal antibody, PBS Only



Catalog Number: 18410-1-PBS

Featured Product

## Basic Information

**Catalog Number:**

18410-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG13178

**GenBank Accession Number:**

BC000324

**GeneID (NCBI):**

2896

**UNIPROT ID:**

P28799

**Full Name:**

granulin

**Calculated MW:**

64 kDa

**Observed MW:**

60-70 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## Background Information

GRN, also known as PGRN or PCDGF, is a cysteine-rich protein of 68.5 kDa that is typically secreted into a highly glycosylated 88 kDa form. PGRN is a unique growth factor that plays an important role in cutaneous wound healing. It has an anti-inflammatory effect and promotes cell proliferation. When PCDGF is degraded to several 6-25 kDa fragments, called granulins (GRNs) by neutrophil proteases, a pro-inflammatory reaction occurs. PGRN is widely expressed, particularly in epithelial cells, immune cells, neurons, and chondrocytes. High levels of PGRN expression have been reported in human cancers, and its expression is closely correlated with the development and metastasis of several cancers. The recent discovery that mutations in the gene encoding for pro-granulin (GRN) cause frontotemporal lobar degeneration (FTLD), and other neurodegenerative diseases leading to dementia, has brought renewed interest in progranulin and its functions in the central nervous system.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

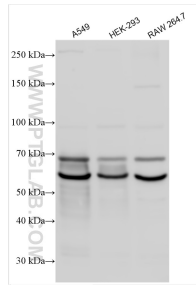
For technical support and original validation data for this product please contact:

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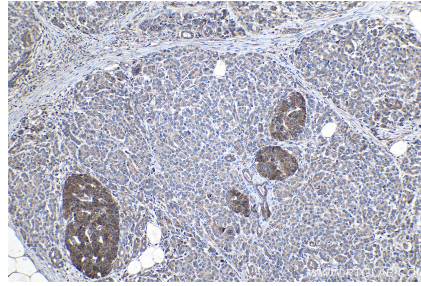
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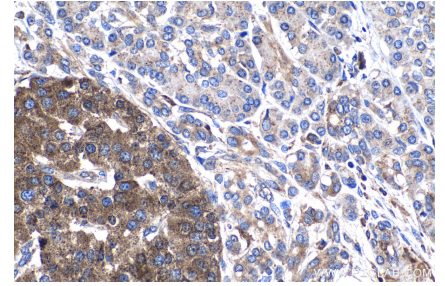
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18410-1-AP (Granulin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 18410-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 18410-1-AP (Granulin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 18410-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 18410-1-AP (Granulin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 18410-1-PBS in a different storage buffer formulation.