

For Research Use Only

# Biotin-conjugated Progranulin/PGRN Polyclonal antibody

Catalog Number: Biotin-18410



## Basic Information

|   |                                       |   |
|---|---------------------------------------|---|
| Catalog Number:<br>Biotin-18410                         | GenBank Accession Number:<br>BC000324 | Purification Method:<br>Antigen affinity purification |
| Size:<br>100ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI):<br>2896                | Recommended Dilutions:<br>IHC 1:50-1:500              |
| Source:<br>Rabbit                                       | UNIPROT ID:<br>P28799                 |   |
| Isotype:<br>IgG   | Full Name:<br>granulin                |   |
| Immunogen Catalog Number:<br>AG13178                    | Calculated MW:<br>64 kDa              |   |

## Applications

|  |  |
|--|--|
| Tested Applications:<br>IHC  | Positive Controls:<br>IHC : human kidney tissue, |
| Species Specificity:<br>human, mouse, rat  |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## 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. This antibody is conjugated with Biotin.

## Storage

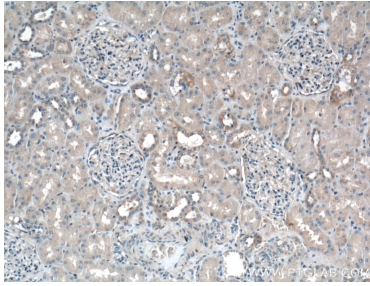
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.03% Proclin300, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

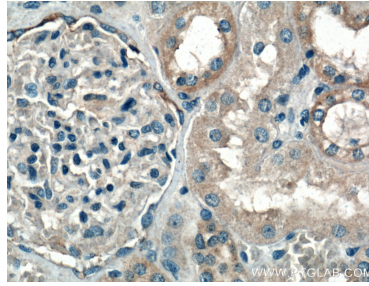
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using Biotin-18410(Granulin antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using Biotin-18410(Granulin antibody) at dilution of 1:200 (under 40x lens).