

For Research Use Only

# Progranulin/PGRN Recombinant antibody, PBS Only (Capture)

Catalog Number: 86118-2-PBS



## Basic Information

<b>Catalog Number:</b> 86118-2-PBS	<b>GenBank Accession Number:</b> NM_002087.3	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2896	<b>CloneNo.:</b> 250681G2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P28799-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> granulin	
<b>Immunogen Catalog Number:</b> EG2954	<b>Calculated MW:</b> 64 kDa	
	<b>Observed MW:</b> 74 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA, Sample test

**Species Specificity:**  
human

## Product Information

86118-2-PBS targets Progranulin/PGRN as part of a matched antibody pair:

MP02283-1: 86118-2-PBS capture and 86118-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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

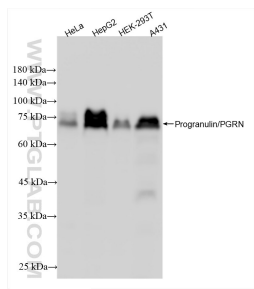
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

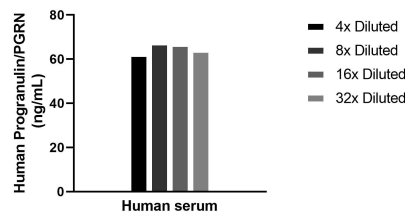
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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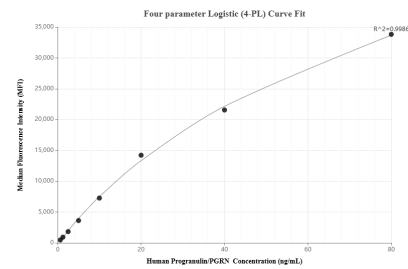
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86118-2-RR (GRN antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86118-2-PBS in a different storage buffer formulation.



The mean Progranulin/PGRN concentration was determined to be 64.7 ng/mL in human serum.



Cytometric bead array standard curve of MP02283-1, Progranulin/PGRN Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86118-2-PBS. Detection antibody: 86118-1-PBS. Standard: Eg2954. Range: 0.625-80 ng/mL.