

Progranulin/PGRN Polyclonal antibody

Catalog Number: 29491-1-AP

Basic Information

Catalog Number:

29491-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30723

GenBank Accession Number:

BC000324

GeneID (NCBI):

2896

UNIPROT ID:

P28799

Full Name:

granulin

Calculated MW:

64 kDa

Observed MW:

70-75 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse

Positive Controls:**WB :** A431 cells, 4T1 cells, HEK-293 cells, HepG2 cells, MCF-7 cells, U-937 cells, J774A.1 cells, NIH/3T3 cells, RAW 264.7 cells, mouse lung tissue

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:

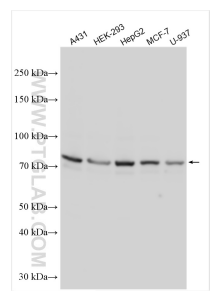
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

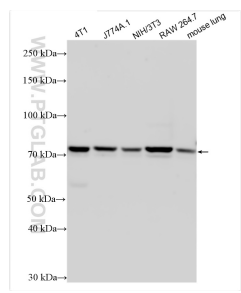
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29491-1-AP (Granulin antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 29491-1-AP (Granulin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.