

Granulin Polyclonal ANTIBODY

Catalog Number: 18410-1-AP

Featured Product

5 Publications

Basic Information

Catalog Number:
18410-1-AP

Size:
30 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG13178

GenBank Accession Number:
BC000324

GeneID (NCBI):
2896

Full Name:
granulin

Calculated MW:
64 kDa

Observed MW:
68 kDa, 70-88 kDa

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

Applications

Tested Applications:

IP, WB, ELISA

Cited Applications:

IHC, WB

Species Specificity:

human,mouse,rat

Cited Species:

human, mouse

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse kidney tissue; A431 cells, PC-3 cells, rat brain tissue, mouse heart tissue, THP-1 cells, mouse lung tissue, HeLa cells, HEK-293 cells, U-937 cells, rat kidney tissue, rat heart tissue

IP : mouse kidney 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 progranulin (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.

Notable Publications

Author	Pubmed ID	Journal	Application
Kun Huang	25626394	Immunology	IHC
Faisal Aziz	25527419	J Cancer Res Clin Oncol	WB, IHC
Faisal Aziz	25937205	Mbl Med Rep	

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

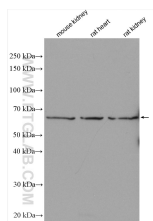
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

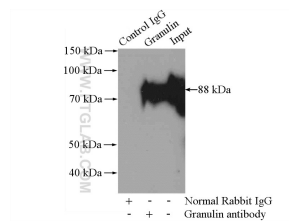
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18410-1-AP (Granulin antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours



IP Result of anti-Granulin (IP:18410-1-AP, 4ug; Detection:18410-1-AP 1:800) with mouse kidney tissue lysate 4000ug.