

# Granulin Monoclonal antibody

Catalog Number: 60037-2-Ig

## Basic Information

**Catalog Number:**

60037-2-Ig

**Size:**

500 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG0010

**GenBank Accession Number:**

BC010577

**GeneID (NCBI):**

2896

**UNIPROT ID:**

P28799

**Full Name:**

granulin

**Calculated MW:**

64 kDa

**Observed MW:**

64-68 kDa

**Purification Method:**

Caprylic acid/ammonium sulfate precipitation

**CloneNo.:**

5B8B7

**Recommended Dilutions:**

WB 1:200-1:1000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : Hela cells,

## 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:**

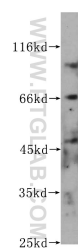
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

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

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 60037-2-Ig (Granulin antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.