

Granulin Monoclonal antibody

Catalog Number: 60037-1-Ig

Basic Information

Catalog Number:

60037-1-Ig

Size:

Source:

Mouse

Isotype:

IgM

Immunogen Catalog Number:

AG0010

GenBank Accession Number:

BC010577

GeneID (NCBI):

2896

UNIPROT ID:

P28799

Full Name:

granulin

Calculated MW:

64 kDa

Purification Method:

Caprylic acid/ammonium sulfate precipitation

CloneNo.:

3G7B5

Applications

Tested Applications:

ELISA

Species Specificity:

human

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 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

