

## **Anti-GRN / Granulin Antibody**

Rabbit Anti Human Polyclonal Antibody Catalog # ALS18342

## **Specification**

## **Anti-GRN / Granulin Antibody - Product Information**

Application WB, IHC-P Primary Accession P28799

Predicted Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

Isotype IgG
Calculated MW 63544

## **Anti-GRN / Granulin Antibody - Additional Information**

**Gene ID 2896** 

Alias Symbol GRN

**Other Names** 

GRN, Acrogranin, CLN11, Epithelin precursor, GEP, gp88, Granulin, Granulin-epithelin, Granulins, PC cell-derived growth factor, PCDGF, PEPI, PGRN, Proepithelin, Progranulin

Target/Specificity

Human GRN / Granulin.

**Reconstitution & Storage** 

Affinity purified

#### **Precautions**

Anti-GRN / Granulin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

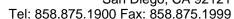
# **Anti-GRN / Granulin Antibody - Protein Information**

### Name GRN (HGNC:4601)

#### **Function**

Secreted protein that acts as a key regulator of lysosomal function and as a growth factor involved in inflammation, wound healing and cell proliferation (PubMed:<a

href="http://www.uniprot.org/citations/28541286" target="\_blank">28541286</a>, PubMed:<a href="http://www.uniprot.org/citations/28073925" target="\_blank">28073925</a>, PubMed:<a href="http://www.uniprot.org/citations/18378771" target="\_blank">18378771</a>, PubMed:<a href="http://www.uniprot.org/citations/28453791" target="\_blank">28453791</a>, PubMed:<a href="http://www.uniprot.org/citations/12526812" target="\_blank">12526812</a>). Regulates protein trafficking to lysosomes and, also the activity of lysosomal enzymes (PubMed:<a href="http://www.uniprot.org/citations/28453791" target="\_blank">28453791</a>, PubMed:<a href="http://www.uniprot.org/citations/28453791" target="\_blank">28453791</a>, PubMed:<a href="http://www.uniprot.org/citations/28453791" target="\_blank">28541286</a>). Facilitates





also the acidification of lysosomes, causing degradation of mature CTSD by CTSB (PubMed:<a href="http://www.uniprot.org/citations/28073925" target=" blank">28073925</a>). In addition, functions as a wound-related growth factor that acts directly on dermal fibroblasts and endothelial cells to promote division, migration and the formation of capillary-like tubule structures (By similarity). Also promotes epithelial cell proliferation by blocking TNF-mediated neutrophil activation preventing release of oxidants and proteases (PubMed: <a href="http://www.uniprot.org/citations/12526812" target=" blank">12526812</a>). Moreover, modulates inflammation in neurons by preserving neurons survival, axonal outgrowth and neuronal integrity (PubMed:<a href="http://www.uniprot.org/citations/18378771" target="\_blank">18378771</a>).

#### **Cellular Location**

Secreted. Lysosome Note=Endocytosed by SORT1 and delivred to lysosomes (PubMed:21092856, PubMed:28073925). Targeted to lysosome by PSAP via M6PR and LRP1, in both biosynthetic and endocytic pathways (PubMed:26370502, PubMed:28073925). Co-localized with GBA1 in the intracellular trafficking compartments until to lysosome (By similarity) {ECO:0000250|UniProtKB:P28798, ECO:0000269|PubMed:21092856, ECO:0000269|PubMed:26370502, ECO:0000269|PubMed:28073925}

#### **Tissue Location**

In myelogenous leukemic cell lines of promonocytic, promyelocytic, and proerythroid lineage, in fibroblasts, and very strongly in epithelial cell lines. Present in inflammatory cells and bone marrow. Highest levels in kidney

### **Anti-GRN / Granulin Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-GRN / Granulin Antibody - Images