

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

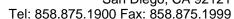
Anti-GRN / Granulin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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:28541286, PubMed:28073925, PubMed:18378771, PubMed:28453791, PubMed:12526812). Regulates protein trafficking to lysosomes and, also the activity of lysosomal enzymes (PubMed:28453791, PubMed:28453791, PubMed:28541286). Facilitates





also the acidification of lysosomes, causing degradation of mature CTSD by CTSB (PubMed:28073925). 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: 12526812). Moreover, modulates inflammation in neurons by preserving neurons survival, axonal outgrowth and neuronal integrity (PubMed:18378771).

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