

# Anti-Granulin Antibody

Rabbit polyclonal antibody to Granulin

Catalog # AP61369

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P28799</a> |
| Reactivity        | Human, Rat             |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 63544                  |

## Additional Information

|                    |   |
|--------------------|---|
| Gene ID            | 2896  |
| Other Names        | Granulins; Proepithelin; PEPI   |
| Target/Specificity | Recognizes endogenous levels of Granulin protein.   |
| Dilution           | WB~~WB (1/500 - 1/1000)   |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide. |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt   |

## Protein Information

|                   |   |
|-------------------|---|
| Name              | GRN ( <a href="#">HGNC:4601</a> )   |
| 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="#">12526812</a> , PubMed: <a href="#">18378771</a> , PubMed: <a href="#">28073925</a> , PubMed: <a href="#">28453791</a> , PubMed: <a href="#">28541286</a> ). Regulates protein trafficking to lysosomes, and also the activity of lysosomal enzymes (PubMed: <a href="#">28453791</a> , PubMed: <a href="#">28541286</a> ). Also facilitates the acidification of lysosomes, causing degradation of mature CTSD by CTSB (PubMed: <a href="#">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="#">12526812</a> ). Moreover, modulates inflammation in neurons by preserving neurons survival, axonal outgrowth and neuronal integrity (PubMed: <a href="#">18378771</a> ). |
| Cellular Location | Secreted. Lysosome Note=Endocytosed by SORT1 and delivered 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

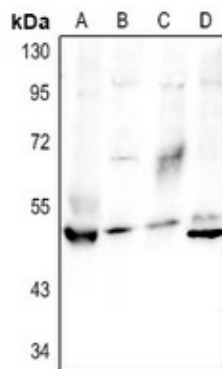
## Background

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KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Granulin. The exact sequence is proprietary.

## Images

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Western blot analysis of Granulin expression in rat kidney (A), HEK293T (B), Jurkat (C), Beas2B (D) whole cell lysates.

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