

# Anti-Granulin Antibody

Rabbit polyclonal antibody to Granulin  
Catalog # AP61369

## Product Information

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

## Additional Information

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<b>Gene ID</b>	2896
<b>Other Names</b>	Granulins; Proepithelin; PEPI
<b>Target/Specificity</b>	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Granulin. The exact sequence is proprietary.
<b>Dilution</b>	WB--WB (1/500 - 1/1000)
<b>Format</b>	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
<b>Storage</b>	Store at -20 °C. Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	GRN ( <a href="#">HGNC:4601</a> )
<b>Function</b>	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

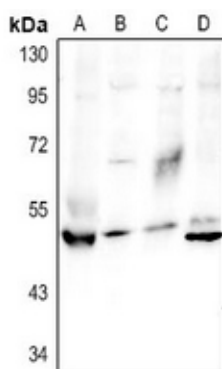
## Background

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.