



# Mouse Anti-Human Progranulin monoclonal antibody, clone NN13 (CABT-ZB1119)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                           |                                                                                                                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>        | It reacts with Human Progranulin                                                                                                                                                                                                                                                           |
| <b>Target</b>             | GRN                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>          | Recombinant Human Granulin protein                                                                                                                                                                                                                                                         |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                        |
| <b>Source/Host</b>        | Mouse                                                                                                                                                                                                                                                                                      |
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                                      |
| <b>Clone</b>              | NN13                                                                                                                                                                                                                                                                                       |
| <b>Purification</b>       | Protein A purified                                                                                                                                                                                                                                                                         |
| <b>Conjugate</b>          | Unconjugated                                                                                                                                                                                                                                                                               |
| <b>Applications</b>       | ELISA, ELISA(det), ICC/IF<br>We recommend the following for sandwich ELISA (Capture - Detection):<br>CABT-ZB830 - CABT-ZB1119<br>This antibody will detect Progranulin in antibody pair set. [ABPR-ZB411]                                                                                  |
| <b>Preparation</b>        | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human Granulin / GRN. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| <b>Format</b>             | Purified, Liquid                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>      | Lot specific                                                                                                                                                                                                                                                                               |

|                     |                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>         | 50 µL, 100 µL, 200 µL, 1 mL                                                                                                                                                                                                                        |
| <b>Buffer</b>       | PBS                                                                                                                                                                                                                                                |
| <b>Preservative</b> | None                                                                                                                                                                                                                                               |
| <b>Storage</b>      | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| <b>Ship</b>         | Wet ice                                                                                                                                                                                                                                            |

## BACKGROUND

**Introduction**

Granulins are a family of secreted, glycosylated peptides that are cleaved from a single precursor protein with 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif. The precursor protein, progranulin, is also called Proepithelin and PC cell-derived growth factor. Cleavage of the signal peptide produces mature granulin which can be further cleaved into a variety of active, 6 kDa peptides. These smaller cleavage products are named granulin A, granulin B, granulin C, etc. Epithelins 1 and 2 are synonymous with granulins A and B, respectively. Both the peptides and intact granulin protein regulate cell growth. However, different members of the granulin protein family may act as inhibitors, stimulators, or have dual actions on cell growth. Granulin family members are important in normal development, wound healing, and tumorigenesis. Granulins have possible cytokine-like activity. They may play a role in inflammation, wound repair, and tissue remodeling. Granulin-4 promotes proliferation of the epithelial cell line A431 in culture while granulin-3 acts as an antagonist to granulin-4, inhibiting the growth. Granulin expression inhibited Tat transactivation, and tethering experiments showed that this effect was due, at least in part, to a direct action on cyclin T1 in the absence of Tat.

**Keywords** GRN; granulin; GEP; GP88

## GENE INFORMATION

**Synonyms** GRN; granulin; GEP; GP88; PEPI; PGRN; CLN11; PCDGF; granulins; acrogranin; progranulin; proepithelin; granulin-epithelin; PC cell-derived growth factor

**Entrez Gene ID** [2896](#)

**UniProt ID** [P28799](#)