

Product datasheet for **AP31954PU-N**

Granulin (GRN) (248-259) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	Peptide ELISA: 1/8000 (Detection limit). Western blot: 1-3 µg/ml. detects a band of Approx 75kDa in lysates of cell lines A431, A549 and HeLa. The observed molecular weight corresponds to earlier findings in literature with different antibodies (He and Bateman, <i>Cancer Res.</i> 1999 Jul 1;59(13):3222-9. PMID: 10397269).
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the internal of the protein sequence according to NP_002078.1.
Specificity:	This antibody is expected to recognize the C-Terminal part of Granulin-3.
Formulation:	Tris saline, pH~7.3 State: Aff - Purified State: Liquid purified Ig fraction Stabilizer: 0.5% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	63.5 kDa (NP_002078.1).
Gene Name:	granulin
Database Link:	Entrez Gene 2896 Human P28799



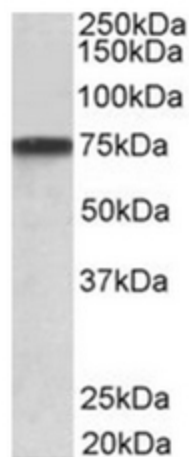
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Background:

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. Tissue specificity: 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. Involvement in disease: Defects in GRN are the cause of ubiquitin-positive frontotemporal dementia (UP-FTD) [MIM:607485]; also known as tau-negative frontotemporal dementia linked to chromosome 17. Frontotemporal dementia (FTD) is the second most common cause of dementia in people under the age of 65 years. It is an autosomal dominant neurodegenerative disease.

Synonyms:

GRN, Granulins, Proepithelin, PEPI

Product images:

Granulin-3 antibody staining of A431 lysate at 1 ug/ml (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.