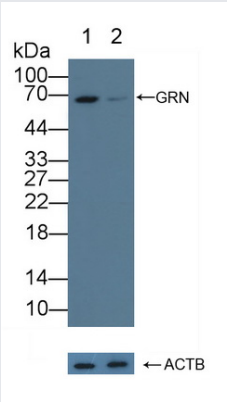
Granulin (GRN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Granulin (GRN), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Granulin (GRN)
Product Gene Name	anti-GRN antibody
Product Synonym Names	GEP; GP88; PCDGF; PEPI; PGRN; Proepithelin; Acrogranin; Glycoprotein of 88 Kda; Paragranulin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Pig
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: GRN (MBS2015017) FITC Conjugated Antibody: GRN (MBS2066348)
Matching Pairs	FITC Conjugated Antibody: GRN (MBS2066348) Immunogen: GRN (MBS2018332)
Molecular Weight	44,132 Da
OMIM	X62320 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	GRN (Lys361~Arg585)
Conjugation	FITC
Cross Reactivity	Human
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2015017
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-GRN antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-GRN antibody	MBS2066348 is an antibody targeting GRN. Also known as FITC-Linked Polyclonal Antibody to Granulin (GRN). Reactive in Human, Pig. Host: Rabbit.
Other Notes	Small volumes of anti-GRN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Knockout Validation of anti-GRN antibody
Knockout Validation: Lane 1: Wild-type A431 cell lysate; Lane 2: GRN knockout A431 cell lysate; Predicted MW: 44,47,64kd Observed MW: 64kd Primary Ab: 1ug/ml Rabbit Anti-Human GRN Antibody Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (#MBS2086047)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRN. It may not necessarily be applicable to this product.

NCBI GI #	183613
NCBI GeneID	2896
NCBI Accession #	AAA58617.1
UniProt Secondary Accession #	P23781; P23782; P23783; P23784; Q53HQ8; Q53Y88; Q540U8; Q9BWE7; Q9H8S1; Q9UCH0; D3DX55
UniProt Related Accession #	P28799
NCBI Official Full Name	granulin
NCBI Official Synonym Full Names	granulin precursor
NCBI Official Symbol	GRN
NCBI Official Synonym Symbols	GEP; GP88; PEPI; PGRN; CLN11; PCDGF
UniProt Protein Name	Granulins
UniProt Synonym Protein Names	Proepithelin; PEPI
Protein Family	GATA-binding factor
UniProt Gene Name	GRN
UniProt Synonym Gene Names	PEPI; GP88; Glycoprotein 88
NCBI Protein Information	granulins
NCBI Summary for GRN	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 88 kDa 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. [provided by RefSeq, Jul 2008]

UniProt Comments for GRN	GRN: Granulins have possible cytokine-like activity. They may play a role in inflammation, wound repair, and tissue remodeling. Defects in GRN are the cause of ubiquitin-positive frontotemporal dementia (UP-FTD); 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. Defects in GRN are the cause of neuronal ceroid lipofuscinosis type 11 (CLN11). A form of neuronal ceroid lipofuscinosis characterized by rapidly progressive visual loss due to retinal dystrophy, seizures, cerebellar ataxia, and cerebellar atrophy. Cognitive decline may also occur. Neuronal ceroid lipofuscinoses are progressive neurodegenerative, lysosomal storage diseases characterized by intracellular accumulation of autofluorescent liposomal material. Belongs to the granulin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 17q21.31 Cellular Component: intracellular membrane-bound organelle Molecular Function: growth factor activity; protein binding Disease: Ceroid Lipofuscinosis, Neuronal, 11; Frontotemporal Lobar Degeneration With Tdp43 Inclusions, Grn-related
Research Articles on GRN	**1.** Studied levels of salivary visfatin, chemerin, and progranulin and in gingivitis, periodontitis, as well as healthy patients. Salivary progranulin levels were similar in all groups; chemerin was detected at higher levels in the periodontitis group compared to the gingivitis and the healthy groups; visfatin levels were higher in patients with gingivitis and periodontitis compared to those of healthy subjects.
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