

Datasheet for ABIN1672874 Granulin ELISA Kit

Image



Overview

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Quantity:	96 tests
Target:	Granulin (GRN)
Binding Specificity:	AA 18-593
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	1.56-100 ng/mL
Minimum Detection Limit:	1.56 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Progranulin	
Brand:	PicoKine™	
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Saliva, Urine, Milk	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Immunogen:	Expression system for standard: NSO Immunogen sequence: T18-L593	
Specificity:	Expression system for standard: NSO Immunogen sequence: T18-L593	
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.	

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Product Details

Sensitivity:	<50pg/mL	
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette	
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the	
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation	
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl	

Target Details

Target:	Granulin (GRN)	
Alternative Name:	GRN (GRN Products)	
Target Type:	Viral Protein	
Background:	Protein Function: Granulins have possible cytokine-like activity. They may play a role in	
	inflammation, wound repair, and tissue remodeling.	
	Background: Granulin, also known as Proepithelin(PEPI) is a protein that in humans is encoded	
	by the GRN gene. This gene is mapped to 17q21.31. 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 signa	
	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 proteir	
	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.	
	Synonyms: Granulins,Proepithelin,PEPI,Acrogranin,Glycoprotein of 88 Kda,GP88,Glycoprotein	
	88,Progranulin,Paragranulin,Granulin-1,Granulin G,Granulin-2,Granulin F,Granulin-3,Granulin	
	B,Granulin-4,Granulin A,Granulin-5,Granulin C,Granulin-6,Granulin D,Granulin-7,Granulin E,GRN,	
	Full Gene Name: Granulins	
	Cellular Localisation: Secreted.	
Gene ID:	2896	
UniProt:	P28799	

Application Details

Application Notes:

Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

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Application Details	
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the granulin family.
	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.
Plate:	Pre-coated
Protocol:	human Progranulin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for Progranulin has been
	precoated onto 96-well plates. Standards(NSO, T18-L593) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for Progranulin is added
	subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase
	Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP
	substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to
	produce a blue color product that changed into yellow after adding acidic stop solution. The
	density of yellow is proportional to the human Progranulin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 100 ng/mL, 50 ng/mL, 25 ng/mL, 1.25 ng/mL, 6.25 ng/mL,
	3.12 ng/mL, 1.56 ng/mL human Progranulin standard solutions into the precoated 96-well
	plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of
	each properly diluted sample of human cell culture supernates, serum, plasma (heparin, EDTA),
	saliva, urine or human milk to each empty well. See "Sample Dilution Guideline" above for
	details. We recommend that each human Progranulin standard solution and each sample is
	measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(ng/ml): 15.4, Standard deviation: 0.986, CV(%): 6.4
	 Sample 2: n=16, Mean(ng/ml): 37.7, Standard deviation: 2, CV(%): 5.3
	 Sample 3: n=16, Mean(ng/ml): 56, Standard deviation: 2.69, CV(%): 4.8, Sample 1: n=24, Mean(ng/ml): 12.6, Standard deviation: 1.02, CV(%): 7.5.
	 Sample 1: n=24, Mean(ng/ml): 13.6, Standard deviation: 1.02, CV(%): 7.5 Sample 2: n=24, Mean(ng/ml): 32.8, Standard deviation: 2.69, CV(%): 8.2
	 Sample 3: n=24, Mean(ng/ml): 61, Standard deviation: 4.76, CV(%): 7.8
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C

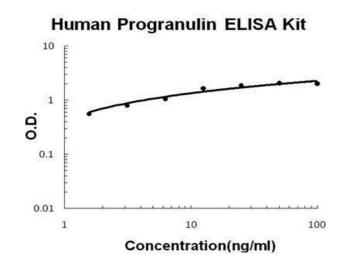
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Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date:

Images



12 months

ELISA

Image 1. Human Progranulin PicoKine ELISA Kit standard

curve