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Datasheet for ABIN1889363 Granulin ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	Granulin (GRN)
Binding Specificity:	AA 18-589
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.78-50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Progranulin PicoKine™
PicoKine™
Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Quantitative
Colorimetric
Expression system for standard: NSO Immunogen sequence: T18-L589
Expression system for standard: NSO Immunogen sequence: T18-L589
There is no detectable cross-reactivity with other relevant proteins.

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Product Details

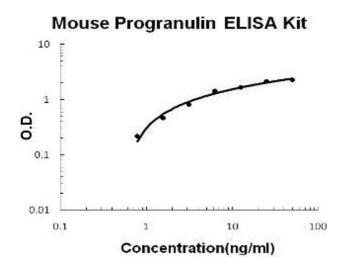
Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral 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. Acts as an autocrine growth factor for PC
	cells
	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 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.
	Synonyms: Granulins,PC cell-derived growth
	factor,PCDGF,Proepithelin,PEPI,Acrogranin,Progranulin,Granulin-1,Granulin-2,Granulin-
	3,Granulin-4,Granulin-5,Granulin-6,Granulin-7,Grn,
	Full Gene Name: Granulins
	Cellular Localisation: Secreted.
Gene ID:	14824
UniProt:	P28798

Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Ubiquitous.
Plate:	Pre-coated
Protocol:	mouse Progranulin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat specific for Progranulin has been precoated
	onto 96-well plates. Standards(NSO, T18-L589) 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 mouse Progranulin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL,
	1.56 ng/mL, 0.78 ng/mL mouse 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 mouse cell culture supernates, serum or plasma(heparin,
	EDTA) to each empty well. See "Sample Dilution Guideline" above for details. We recommend
	that each mouse Progranulin standard solution and each sample is measured in duplicate.
Assay Precision:	Samnle 1: n=16, Mean(ng/ml): 8.6, Standard deviation: 0.473, CV(%): 5.5 Samnle 2: n=16,
	Mean(ng/ml): 20, Standard deviation: 1.24, CV(%): 6.2 Samnle 3: n=16, Mean(ng/ml): 31.5,
	Standard deviation: 1.638, CV(%): 5.2,Samnle 1: n=24, Mean(ng/ml): 9.1, Standard deviation:
	0.582, CV(%): 6.4 Samnle 2: n=24, Mean(ng/ml): 25.2, Standard deviation: 1.84, CV(%): 7.3
	Samnle 3: n=24, Mean(ng/ml): 36.8, Standard deviation: 2.392, CV(%): 6.5
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

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ELISA

Image 1. Mouse Progranulin PicoKine ELISA Kit standard curve

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