

Human Grancalcin (GCA) ELISA Kit | GCA elisa kit

Human Grancalcin (GCA)(Sandwich ELISA) ELISA Kit

CATALOG # AAA23127	REACTIVITY Human	APPLICATIONS ELISA
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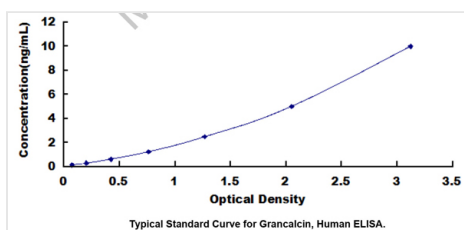
PRODUCT SYNONYMS

Grancalcin (GCA); Human Grancalcin (GCA)(Sandwich ELISA) ELISA Kit; ELISA Kit for Grancalcin (GCA); GCA/Grancalcin; GCL; EF Hand Calcium Binding Protein; GCA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of grancalcin. No significant cross-reactivity or interference between grancalcin and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.055ng/mL
Applicable Applications for GCA elisa kit	ELISA
Application Notes	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level grancalcin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level grancalcin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/ -20 degree C for long-term (within shelf life). The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCA elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to grancalcin. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to grancalcin. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain grancalcin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of grancalcin in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of grancalcin in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for GCA elisa kit	Enzyme & Kinase; Endocrinology; Neuro science

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912388
NCBI GeneID	25801
NCBI Accession #	NP_036330.1
NCBI GenBank Nucleotide #	NM_012198.3
UniProt Accession #	P28676; Q53TB5; Q59EP3; B2R5X3
Molecular Weight	24,010 Da
NCBI Official Full Name	grancalcin
NCBI Official Synonym Full Names	grancalcin, EF-hand calcium binding protein
NCBI Official Symbol	GCA
NCBI Official Synonym Symbols	GCL
NCBI Protein Information	grancalcin; grancalcin, EF-hand calcium-binding protein; grancalcin, penta-EF-hand protein
UniProt Protein Name	Grancalcin
UniProt Gene Name	GCA
UniProt Synonym Gene Names	GCL
UniProt Entry Name	GRAN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.