

Human GCA (Grancalcin) ELISA Kit | GCA elisa kit

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CATALOG #
AAA248946

REACTIVITY
Human

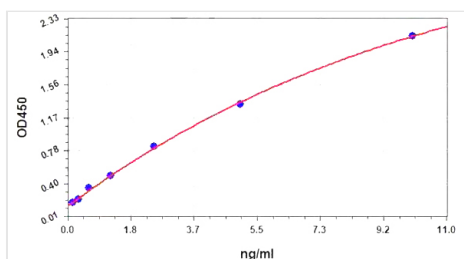
PRODUCT SYNONYMS

GCA (Grancalcin); Human GCA (Grancalcin) ELISA Kit; GCA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize GCA, no obvious cross reaction with other analogues
Sequence Length	220
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCA elisa kit	Background: Grancalcin is a calcium binding protein abundant in neutrophils and macrophages. It belongs to the penta EF hand subfamily of proteins which includes sorcin, calpain, and ALG2. Grancalcin localization is dependent upon calcium and magnesium. In the absence of divalent cation, grancalcin localizes to the cytosolic fraction; with magnesium alone, it partitions with the granule fraction; and in the presence of magnesium and calcium, it associates with both the granule and membrane fractions, suggesting a role for grancalcin in granule membrane fusion and degranulation. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti GCA antibody was precoated onto the 96-well plate. The biotin conjugated anti GCA antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with GCA conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of GCA in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21704030
NCBI GeneID	227960
NCBI Accession #	NP_663498.1
NCBI GenBank Nucleotide #	NM_145523.3
UniProt Accession #	Q8VC88; Q8BL53; Q8K3Z6
Molecular Weight	24,663 Da
NCBI Official Full Name	grancalcin
NCBI Official Synonym Full Names	grancalcin
NCBI Official Symbol	Gca
NCBI Official Synonym Symbols	AI573844; 5133401E04Rik
NCBI Protein Information	grancalcin
UniProt Protein Name	Grancalcin
UniProt Gene Name	Gca

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.