

Rat Glutamate Cysteine Ligase, Catalytic (GCLC) ELISA Kit | GCLC elisa kit

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CATALOG #
AAA138942

REACTIVITY
Rat

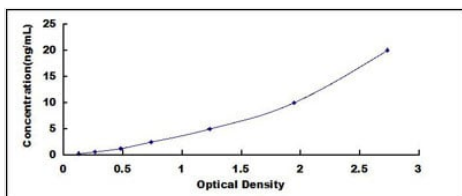
PRODUCT SYNONYMS

Glutamate Cysteine Ligase; Catalytic (GCLC); Rat Glutamate Cysteine Ligase; Catalytic (GCLC) ELISA Kit; GCS; GLCL; GLCLC; Gamma-glutamylcysteine synthetase; Gamma-ECS; GCLC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Glutamate Cysteine Ligase, Catalytic (GCLC). No significant cross-reactivity or interference between Glutamate Cysteine Ligase, Catalytic (GCLC) and analogues was observed.
Sequence Length	717
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.126ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Glutamate Cysteine Ligase, Catalytic (GCLC) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Glutamate Cysteine Ligase, Catalytic (GCLC) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	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 GCLC elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Glutamate Cysteine Ligase, Catalytic (GCLC). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Glutamate Cysteine Ligase, Catalytic (GCLC). 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 Glutamate Cysteine Ligase, Catalytic (GCLC), 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 Glutamate Cysteine Ligase, Catalytic (GCLC) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for GCLC elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	45554453
NCBI GeneID	53581
NCBI Accession #	NP_996373.1
NCBI GenBank Nucleotide #	NM_206650.2
UniProt Accession #	Q9W3K5; Q9NGQ3
Molecular Weight	80,746 Da
NCBI Official Full Name	Glutamate-cysteine ligase catalytic subunit, isoform B
NCBI Official Synonym Full Names	Glutamate-cysteine ligase catalytic subunit
NCBI Official Symbol	Gclc
NCBI Official Synonym Symbols	2259; CG2259; DmelCG2259; DmGCLC; DmGCS; DmGCSh; GCL; gclc; GCLc; Gcs; Gcsh; GCSH
NCBI Protein Information	CG2259 gene product from transcript CG2259-RC
UniProt Protein Name	Glutamate--cysteine ligase
UniProt Gene Name	Gclc
UniProt Synonym Gene Names	GCSH; GCS
UniProt Entry Name	GSH1_DROME

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.