

Human Glutamate Cysteine Ligase, Modifier Subunit ELISA Kit | GCLM elisa kit

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CATALOG #
AAA85529

REACTIVITY
Human

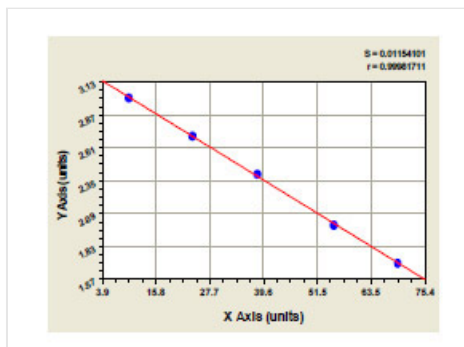
PRODUCT SYNONYMS

Glutamate Cysteine Ligase; Modifier Subunit; Human Glutamate Cysteine Ligase; Modifier Subunit ELISA Kit; GCLM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This GCLM ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human GCLM. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCLM elisa kit

Principle of the Assay: GCLM ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-GCLM antibody and an GCLM-HRP conjugate. The assay sample and buffer are incubated together with GCLM-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GCLM concentration since GCLM from samples and GCLM-HRP conjugate compete for the anti-GCLM antibody binding site. Since the number of sites is limited, as more sites are occupied by GCLM from the sample, fewer sites are left to bind GCLM-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GCLM concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49456623
NCBI GeneID	2730
UniProt Accession #	P48507; Q6FHC1; Q9NPX9; Q9NU74; A8K334; D3DT45
Molecular Weight	30,727 Da
NCBI Official Full Name	GCLM, partial
NCBI Official Synonym Full Names	glutamate-cysteine ligase, modifier subunit
NCBI Official Symbol	GCLM
NCBI Official Synonym Symbols	GLCLR
NCBI Protein Information	glutamate--cysteine ligase regulatory subunit; GCS light chain; GSC light chain; gamma-ECS regulatory subunit; glutamate--cysteine ligase modifier subunit; glutamate-cysteine ligase regulatory protein; gamma-glutamylcysteine synthetase regulatory subunit; glutamate-cysteine ligase modifier subunit delta2 alternative splicing; glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD)
UniProt Protein Name	Glutamate--cysteine ligase regulatory subunit
UniProt Gene Name	GCLM
UniProt Synonym Gene Names	GLCLR
UniProt Entry Name	GSH0_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.

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Online datasheet: <https://stage.aaabiotech.com/gclm-human-elisa-kits/glutamate-cysteine-ligase-modifier-subunit/85529>