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GCLC Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP18483c

Specification

GCLC Antibody (Center) Blocking Peptide - Product Information

Primary Accession P48506

GCLC Antibody (Center) Blocking Peptide - Additional Information

Gene ID 2729

Other Names
Glutamate--cysteine ligase catalytic subunit, GCS heavy chain, Gamma-ECS, Gamma-glutamylcysteine synthetase, GCLC, GLCL, GLCLC

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GCLC Antibody (Center) Blocking Peptide - Protein Information

Name GCLC (HGNC:4311)

Synonyms GLCL, GLCLC

Function
Catalyzes the ATP-dependent ligation of L-glutamate and L- cysteine and participates in the first and rate-limiting step in glutathione biosynthesis.

GCLC Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

GCLC Antibody (Center) Blocking Peptide - Images

GCLC Antibody (Center) Blocking Peptide - Background

Glutamate-cysteine ligase, also known asgamma-glutamylcysteine synthetase is the first

rate-limiting enzymeof glutathione synthesis. The enzyme consists of two subunits, aheavy catalytic subunit and a light regulatory subunit. This locusencodes the catalytic subunit, while the regulatory subunit isderived from a different gene located on chromosome 1p22-p21.Mutations at this locus have been associated with hemolytic anemiadue to deficiency of gamma-glutamylcysteine synthetase andsusceptibility to myocardial infarction.

GCLC Antibody (Center) Blocking Peptide - References

Man, B.L., et al. J Clin Neurosci 17(10):1244-1247(2010)Jia, P., et al. Schizophr. Res. 122 (1-3), 38-42 (2010) :Le, T.M., et al. Mol. Genet. Metab. 101(1):55-61(2010)Fullerton, J.M., et al. Bipolar Disord 12(5):550-556(2010)Wang, X., et al. PLoS ONE 5 (8), E11934 (2010) :