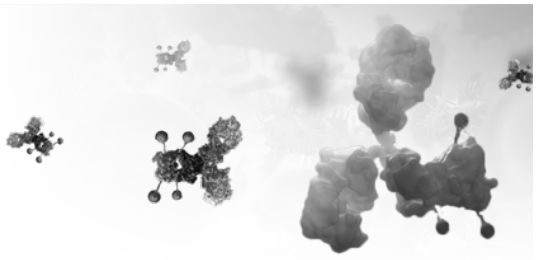

Anti-GCLC (aa 528-637) polyclonal antibody (DPAB-DC1367)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase is the first rate-limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. This locus encodes the catalytic subunit, while the regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Mutations at this locus have been associated with hemolytic anemia due to deficiency of gamma-glutamylcysteine synthetase and susceptibility to myocardial infarction.[provided by RefSeq, Oct 2010]
Immunogen	GCLC (NP_001489, 528 a.a. ~ 637 a.a) partial recombinant protein with GST tag. The sequence is EGVFPGLIPILNSYLENMEVDVDTRCSILNYLKLIKKRASGELMTVARWMREFIANHPDY KQDSVITDEMNYSLILKCNQIANELCECPELLGSAFRKVKYSGSKTDSSN
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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Gene Name	GCLC glutamate-cysteine ligase, catalytic subunit [Homo sapiens (human)]
Official Symbol	GCLC
Synonyms	GCLC; glutamate-cysteine ligase, catalytic subunit; GCL; GCS; GLCL; GLCLC; glutamate--cysteine ligase catalytic subunit; gamma-ECS; GCS heavy chain; gamma-glutamylcysteine synthetase;
Entrez Gene ID	2729
Protein Refseq	NP_001184044
UniProt ID	E1CEI4
Chromosome Location	6p12
Pathway	Biological oxidations; glutathione; glutathione; Glutathione metabolism
Function	ADP binding; ATP binding; coenzyme binding; glutamate binding

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