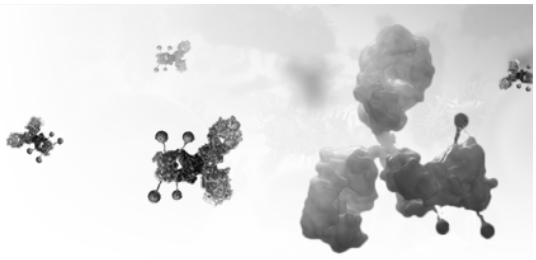

Anti-GCSH (full length) polyclonal antibody (DPAB-DC1311)

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

PRODUCT INFORMATION

Antigen Description	Degradation of glycine is brought about by the glycine cleavage system, which is composed of four mitochondrial protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase). The protein encoded by this gene is the H protein, which transfers the methylamine group of glycine from the P protein to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH). Two transcript variants, one protein-coding and the other probably not protein-coding,have been found for this gene. Also, several transcribed and non-transcribed pseudogenes of this gene exist throughout the genome.[provided by RefSeq, Jan 2010]
Immunogen	GCSH (AAH00790.1, 1 a.a. ~ 173 a.a) full-length recombinant protein with GST tag. The sequence is MALRVVRSVRALLCTLRAVPLPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTEKHEWV TTENGIGTVGISNFAQEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEV TEINEALAENPGLVNKSCYEDGWLIKMTLSNPSELDELMSEEAYEKYIKSIEE
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	GCSH glycine cleavage system protein H (aminomethyl carrier) [Homo sapiens (human)]
Official Symbol	GCSH
Synonyms	GCSH; glycine cleavage system protein H (aminomethyl carrier); GCE; NKH; glycine cleavage system H protein, mitochondrial; lipoic acid-containing protein; mitochondrial glycine cleavage system H-protein;
Entrez Gene ID	2653
Protein Refseq	NP_004474
UniProt ID	P23434
Chromosome Location	16q23.2
Pathway	Glycine, serine and threonine metabolism; Glyoxylate and dicarboxylate metabolism.
Function	aminomethyltransferase activity; enzyme binding;

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