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GCSH Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16949a

Product Information

Application	WB, E
Primary Accession	P23434
Other Accession	Q9N121, P20821
Reactivity	Human
Predicted	Bovine, Rabbit, Mouse, Rat, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36545
Calculated MW	18885
Antigen Region	27-56

Additional Information

Gene ID	2653
Other Names	Glycine cleavage system H protein, mitochondrial, Lipoic acid-containing protein, GCSH
Target/Specificity	This GCSH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 27-56 amino acids from the N-terminal region of human GCSH.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GCSH Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GCSH (HGNC:4208)
Function	The glycine cleavage system catalyzes the degradation of glycine. The H protein (GCSH) shuttles the methylamine group of glycine from the P protein

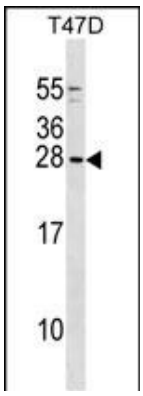
(GLDC) to the T protein (GCST). Has a pivotal role in the lipoylation of enzymes involved in cellular energetics such as the mitochondrial dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex (DLAT), and the mitochondrial dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex (DLST) (PubMed:36190515).

Cellular Location Mitochondrion.

Background

The glycine cleavage system catalyzes the degradation of glycine. The H protein shuttles the methylamine group of glycine from the P protein to the T protein.

Images



GCSH Antibody (N-term) (Cat. #AP16949a) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the GCSH antibody detected the GCSH protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.