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Datasheet for ABIN1714460 anti-GLDC antibody (AA 51-150)



Overview

Quantity:	100 µL
Target:	GLDC
Binding Specificity:	AA 51-150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLDC antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GLDC
Isotype:	IgG
Predicted Reactivity:	Human,Mouse,Rat,Dog,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	GLDC
Alternative Name:	GLDC (GLDC Products)

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Target Details	
Background:	Synonyms: GCE, GCSP, GCSP_HUMAN, GLDC, Glycine cleavage system P protein, glycine cleavage system protein P, Glycine decarboxylase, glycine decarboxylase P protein, Glycine
	dehydrogenase decarboxylating mitochondrial, Glycine dehydrogenase [decarboxylating],
	mitochondrial, Gycine dehydrogenase decarboxylating, HYGN1, MGC138198, MGC138200,
	NKH.
	Background: The glycine cleavage system is comprised of AMT (known as Protein T), GCSH
	(known as Protein H), DLD (known as Protein L) and GLDC (known as Protein P), all of which
	work together to catalyze the cleavage and degradation of glycine. GLDC (glycine
	dehydrogenase), also known as GCE, GCSP (glycine cleavage system P protein) or HYGN1, is a
	1,020 amino acid protein that localizes to the mitochondria and belongs to the gcvP family.
	GLDC binds to glycine and enables the methylamine group from glycine to be transferred to the
	Protein T. GLDC exists as a homodimer and utilizes pyridoxal phosphate as a cofactor.
	Mutations in the gene encoding GLDC leads to nonketotic hyperglycinemia (NKH), also known
	as glycine encephalopathy (GCE), an autosomal recessive disease characterized by
	accumulation of a large amount of glycine in body fluid and by severe neurological symptoms.
Gene ID:	2731

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

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Handling	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

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