# antibodies .- online.com





# anti-GLDC antibody (AA 51-150) (AbBy Fluor® 350)



( )	1 /	$\sim$	KI /	110	Νę
	1//	$\vdash$	I \/	1 ←	٠// ٢

Quantity:	100 μL
Target:	GLDC
Binding Specificity:	AA 51-150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLDC antibody is conjugated to AbBy Fluor® 350
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

## **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)
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:	

IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200

IF(ICC) 1:50-200

Restrictions:

For Research Use only

## Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

1	1 11	١٠
$\vdash$	land	∥n∩
	ıarıa	

Expiry Date:

12 months