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Datasheet for ABIN1711975
anti-GLDC antibody (AA 51-150) (HRP)

Overview

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|----------------------|--|
| Quantity: | 100 µL |
| Target: | GLDC |
| Binding Specificity: | AA 51-150 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This GLDC antibody is conjugated to HRP |
| Application: | Western Blotting (WB), ELISA, 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) |
| Background: | Synonyms: GCE, GCSP, GCSP_HUMAN, GLDC, Glycine cleavage system P protein, glycine |

Target Details

cleavage system protein P, Glycine decarboxylase, glycine decarboxylase P protein, Glycine dehydrogenase decarboxylating mitochondrial, Glycine dehydrogenase [decarboxylating], mitochondrial, Glycine 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
IHC-P 1:200-400
IHC-F 1:100-500

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.

Handling Advice: Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.

Handling

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months