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GLDC Rabbit mAb

Catalog No.: A25584 Recombinant

Basic Information

Observed MW

Calculated MW
113kDa

Category
Primary antibody

Applications
ELISA,IHC-P,IF/ICC

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC66825

Background

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 P protein, which binds to glycine and enables the methylamine group from glycine to be transferred to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH).

Recommended Dilutions

IHC-P	1:50 - 1:200
IF/ICC	1:100 - 1:500

Immunogen Information

Gene ID
2731

Swiss Prot
P23378

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 580-749 of human GLDC (NP_000161.2).

Synonyms
GCE; GCSP; HYGN1

Contact

400-999-6126

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Product Information

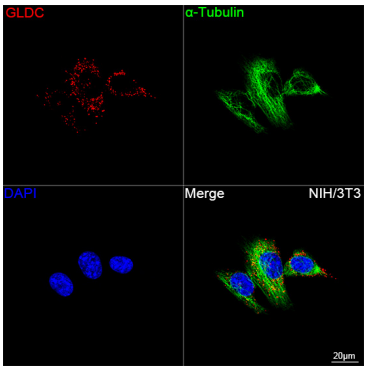
Source
Rabbit

Isotype
IgG

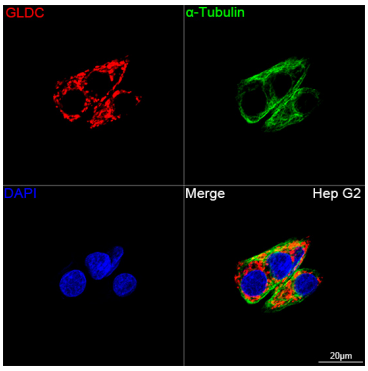
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

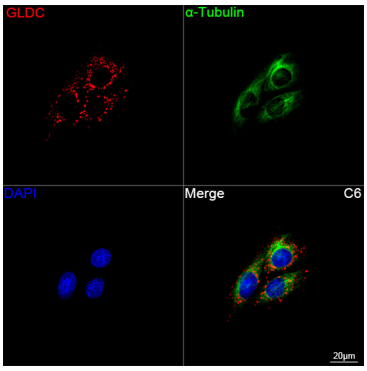
Validation Data



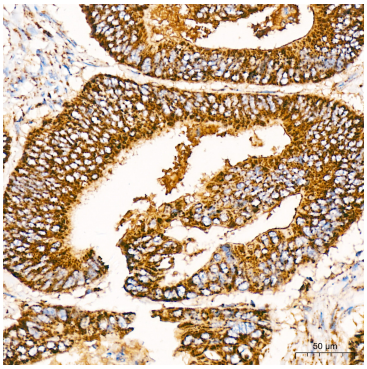
Confocal imaging of NIH/3T3 cells using GLDC Rabbit mAb (A25584, dilution 1:250) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



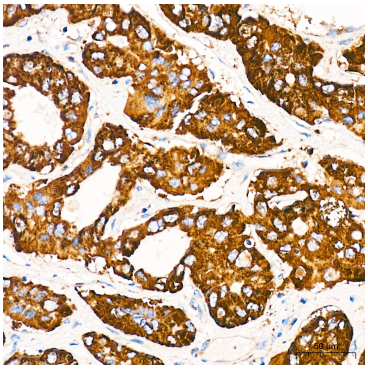
Confocal imaging of Hep G2 cells using GLDC Rabbit mAb (A25584, dilution 1:250) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells using GLDC Rabbit mAb (A25584, dilution 1:250) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of GLDC in paraffin-embedded Human colon carcinoma tissue using GLDC Rabbit mAb (A25584) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of GLDC in paraffin-embedded Human liver cancer tissue using GLDC Rabbit mAb (A25584) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.