

Rabbit anti-Human GLDC Monoclonal Antibody | anti-GLDC antibody

GLDC Rabbit PolymAb

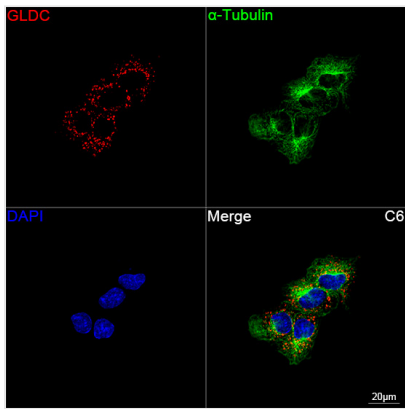
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28583	Rabbit	Human	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

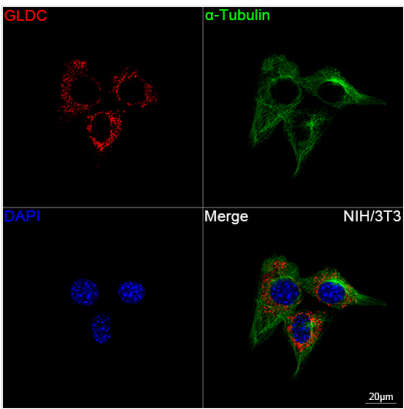
GLDC; Monoclonal Antibody; GLDC Rabbit PolymAb; GCE; GCSP; HYGN1; anti-GLDC antibody

PRODUCT SPECIFICATIONS

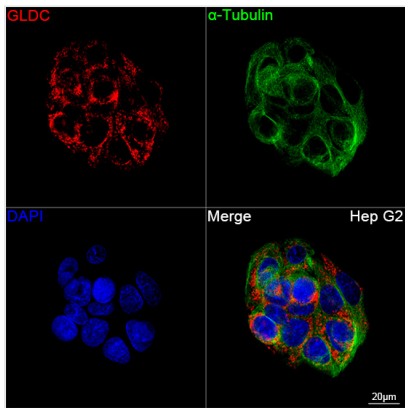
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	HPFVPLDQAQ GYQQLFRELE KDLCELTGYD QVCFQPNSGA QGEYAGLATI RAYLNQKGEG HRTVCLIPKS AHGTNPASAH MAGMKIQPVE VDKYGNIDAV HLKAMVDKHK ENLAAIMITY PSTNGVFEEN ISDVCDLIHQ HGGQVYLDGA NMNAQVGICR PGDFGSDVSH
Applicable Applications for anti-GLDC antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:25000-1:150000 IHC-P: 1:4000-1:16000 IF/ICC: 1:2000-1:8000 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Cross Reactivity	Human, Mouse, Rat
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 580-749 of human GLDC (NP_000161.2).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.



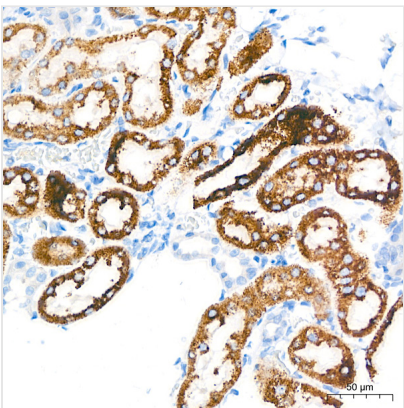
ICC (Immunocytochemistry)
Confocal imaging of C6 cells using GLDC Rabbit PolymAb® (AAA28583, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by 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.



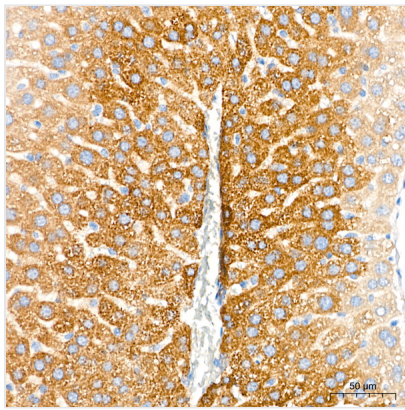
ICC (Immunocytochemistry)
Confocal imaging of NIH/3T3 cells using GLDC Rabbit PolymAb® (AAA28583, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed 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.



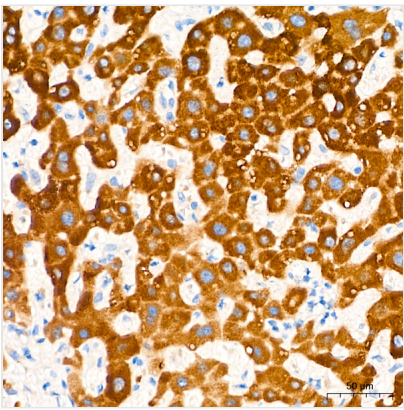
ICC (Immunocytochemistry)
Confocal imaging of Hep G2 cells using GLDC Rabbit PolymAb® (AAA28583, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed 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.



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using GLDC Rabbit PolymAb® (AAA28583) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using GLDC Rabbit PolymAb® (AAA28583) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded Human liver tissue using GLDC Rabbit PolymAb® (AAA28583) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

ADDITIONAL INFORMATION

Related Product Information for anti-GLDC antibody	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).
Product Categories/Family for anti-GLDC antibody	Cancer; Signal Transduction; Endocrine Metabolism; Mitochondrial metabolism; Mitochondrial markers; Amino acid metabolism; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	108773801
NCBI GeneID	2731
NCBI Accession #	NP_000161
NCBI GenBank Nucleotide #	NM_000170
UniProt Accession #	P23378; Q2M2F8
Molecular Weight	Calculated MW: 113kDa Observed MW: 113kDa
UniProt Protein Name	Glycine dehydrogenase (decarboxylating), mitochondrial
UniProt Gene Name	GLDC
UniProt Synonym Gene Names	GCSP
UniProt Entry Name	GCSP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/monoclonal/gldc-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/28583>