

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

GLDC Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28621	Rabbit	Human	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

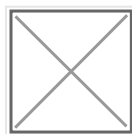
PRODUCT SYNONYMS

GLDC; Polyclonal Antibody; GLDC Rabbit pAb; GCE; GCSP; HYGN1; glycine decarboxylase; anti-GLDC antibody

PRODUCT SPECIFICATIONS

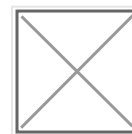
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Sequence	HPFVPLDQAQ GYQQLFRELE KDLCELTGYD QVCFQPNSGA QGEYAGLATI RAYLNQKGEG HRTVCLIPKS AHGTNPASAH MAGMKIQPVE VDKYGNIDAV HLKAMVDKHK ENLAAIMITY PSTNGVFEEN ISDVCDLIHQ HGGQVYLDGA NMNAQVGICR PGDFGSDVSH
Applicable Applications for anti-GLDC antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:500-1:1000 IHC-P: 1:50-1:200 IF/ICC: 1:50-1:200 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.

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of paraffin-embedded Human liver tissue using GLDC Rabbit pAb (AAA28621) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



IF (Immunofluorescence)

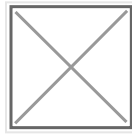
Immunofluorescence analysis of Hep G2 cells using GLDC Rabbit pAb (AAA28621) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

**IHC (Immunohistochemistry)**

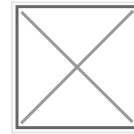
Immunohistochemistry analysis of paraffin-embedded Human placenta using GLDC Rabbit pAb (AAA28621) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Human liver using GLDC Rabbit pAb (AAA28621) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Human kidney using GLDC Rabbit pAb (AAA28621) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

**WB (Western Blot)**

Western blot analysis of various lysates, using GLDC Rabbit pAb (AAA28621) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

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: 112kDa 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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gldc-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/28621>