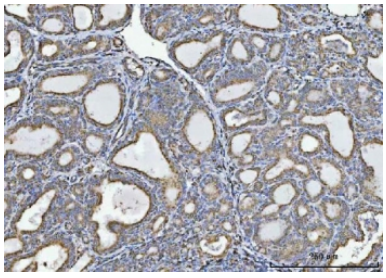
GLDC Antibody / Glycine Decarboxylase [clone 3D3D3] (RQ7134)

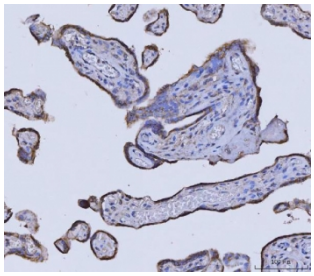
Catalog No.	Formulation	Size
RQ7134	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

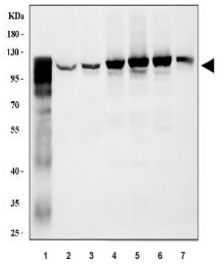
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	3D3D3
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P23378
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This GLDC antibody is available for research use only.



IHC staining of FFPE human thyroiditis tissue with GLDC antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human placental tissue with GLDC antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HCCP, 2) human 293T, 3) human A549, 4) rat liver, 5) rat kidney, 6) mouse liver and 7) mouse kidney tissue lysate with GLDC antibody. Predicted molecular weight ~113 kDa.

Description

Glycine decarboxylase also known as glycine cleavage system P protein or glycine dehydrogenase is an enzyme that in humans is encoded by the GLDC gene. 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).

Application Notes

Optimal dilution of the GLDC antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids K574-S1020) was used as the immunogen for the GLDC antibody.

Storage

After reconstitution, the GLDC antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com