

Biotin-conjugated NDUFS8 Recombinant monoclonal antibody

Catalog Number: Biotin-87156

Basic Information

Catalog Number: Biotin-87156	GenBank Accession Number: BC119754	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4728	CloneNo.: 252267D5
Isotype: IgG	UNIPROT ID: O00217	Recommended Dilutions: IHC: 1:50-1:500
Immunogen Catalog Number: AG18531	Full Name: NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (NADH- coenzyme Q reductase)	
	Calculated MW: 210 aa, 24 kDa	
	Observed MW: 24 kDa	

Applications

Tested Applications: IHC	Positive Controls: IHC : mouse heart tissue,
Species Specificity: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

NADH: ubiquinone oxidoreductase core subunit S8 (NDUFS8), also called TYKY, is an essential core subunit and component of the iron-sulfur (FeS) fragment of mitochondrial complex I directly involved in the electron transfer process and energy metabolism (PMID: 36557887). Pathogenic variants of the NDUFS8 are relevant to infantile-onset and severe diseases, including Leigh syndrome, cancer, and diabetes mellitus (PMID: 36557887). Knockdown of NDUFS8 impaired mitochondrial function, increased ROS, disrupted redox homeostasis, induced apoptosis, and suppressed proliferation and migration of HCC cells (PMID: 40914145).

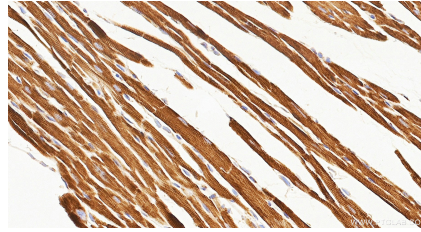
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using Biotin-87156 (NDUFS8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using Biotin-87156 (NDUFS8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).