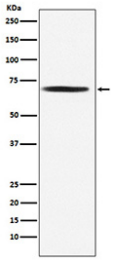
PDC-E2 Antibody / Pyruvate Dehydrogenase E2 [clone 23D09] (RQ8897)

Catalog No.	Formulation	Size
RQ8897	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

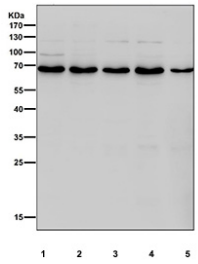
Recombinant RABBIT MONOCLONAL

Bulk quote request

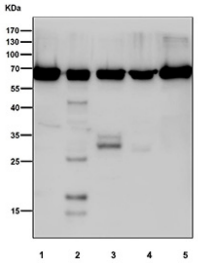
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	23D09
Purity	Affinity chromatography
UniProt	P10515
Localization	Cytoplasm
Applications	Western Blot : 1:500 Immunohistochemistry (FFPE) : 1:50 Immunofluorescence : 1:50
Limitations	This PDC-E2 antibody is available for research use only.



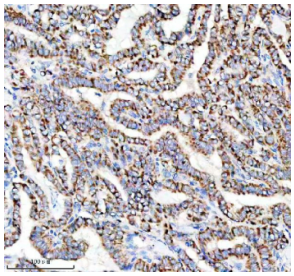
Western blot testing of human Jurkat cell lysate with PDC-E2 antibody. Predicted molecular weight ~69 kDa.



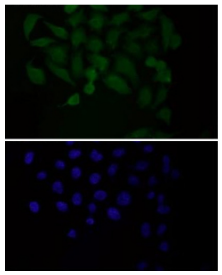
Western blot testing of human 1) HeLa, 2) Jurkat, 3) HepG2, 4) MCF7 and 5) SH-SY5Y cell lysate with PDC-E2 antibody. Predicted molecular weight ~69 kDa.



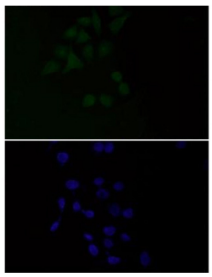
Western blot testing of human 1) HEK293, 2) ThP-1, 3) A431, 4) SH-SY5Y and 5) A673 cell lysate with PDC-E2 antibody. Predicted molecular weight ~69 kDa.



IHC staining of FFPE human thyroid cancer tissue with PDC-E2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human HeLa cells with PDC-E2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Immunofluorescent staining of FFPE human HeLa cells with PDC-E2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

Pyruvate dehydrogenase E2 (PDC-E2) is the dihydrolipoamide acetyltransferase component of the pyruvate dehydrogenase complex, a key mitochondrial enzyme complex linking glycolysis to the citric acid cycle. PDC-E2 catalyzes the transfer of an acetyl group from pyruvate to coenzyme A, producing acetyl-CoA for cellular energy metabolism.

PDC-E2 is essential for efficient carbohydrate oxidation and energy production. It is also the primary autoantigen recognized in primary biliary cholangitis (PBC), an autoimmune liver disease, making it important in both metabolic and immunological research.

Using a high-quality PDC-E2 antibody enables accurate detection in applications such as western blot, immunohistochemistry, and ELISA. A PDC-E2 antibody from NSJ Bioreagents ensures sensitivity and reproducibility for studies involving mitochondrial function, metabolic pathways, and autoimmune disease. Selecting the right PDC-E2 antibody is critical for producing consistent and reliable research results.

Application Notes

Optimal dilution of the PDC-E2 antibody should be determined by the researcher.

Immunogen

A peptide sequence specific to Pyruvate Dehydrogenase E2 was used as the immunogen for the PDC-E2 antibody.

Storage

After reconstitution, the PDC-E2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.