BT LAB
Bioassay Technology Laboratory

Optimize Your Research

PDC-E2 Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA1008
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant human PDC-E2 protein fragments expressed in E.coli.
Mol wt	N/A
Species reactivity	Human,Rabbit
Clonality	Monoclonal
Recommended application	WB
Concentration	1 mg/ml
Full name	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial
Synonyms	DLAT; DLTA; Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex; mitochondrial; 70 kDa mitochondrial autoantigen of primary biliary cirrhosis; PBC; Dihydrolipoamide acetyltransferase component of pyruva

Background

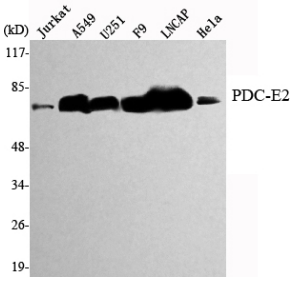
This gene encodes component E2 of the multi-enzyme pyruvate dehydrogenase complex (PDC). PDC resides in the inner mitochondrial membrane and catalyzes the conversion of pyruvate to acetyl coenzyme A. The protein product of this gene, dihydrolipoamide acetyltransferase, accepts acetyl groups formed by the oxidative decarboxylation of pyruvate and transfers them to coenzyme A. Dihydrolipoamide acetyltransferase is the antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95% of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC enventually leads to cirrhosis and liver failure. Mutations in this gene are also a cause of pyruvate dehydrogenase E2 deficiency which causes primary lact

Recommended Dilution

WB: 1:1000 - 1:2000

Not yet tested in other applications.

Images



Western Blot analysis using PDC-E2 Monoclonal antibody against Jurkat, A549, U251. F9, LNCAP, HeLa cell lysate.

Storage

-20°C for one year

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