

DLAT monoclonal antibody

Catalog: MB0031

Host: Mouse

Reactivity: Human, Mouse

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 anti-mitochondrial 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 eventually leads to cirrhosis and liver failure. Mutations in this gene are also a cause of pyruvate dehydrogenase E2 deficiency which causes primary lactic acidosis in infancy and early childhood.

Product:

Mouse IgG1, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

Predicted band size:69KDa

Observed band size:69KDa

Swiss-Prot:

P10515

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000

ICC: 1:300

IP: 1:50~1:200

Storage&Stability:

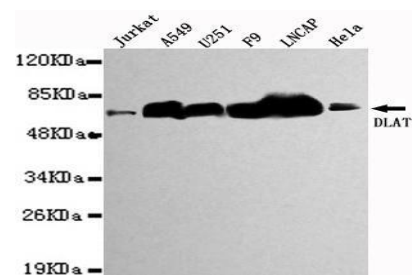
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

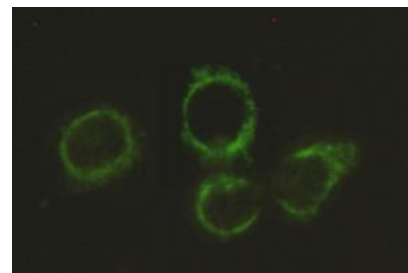
Specificity:

This antibody detects endogenous levels of Pyruvate Dehydrogenase E2 and does not cross-react with related proteins

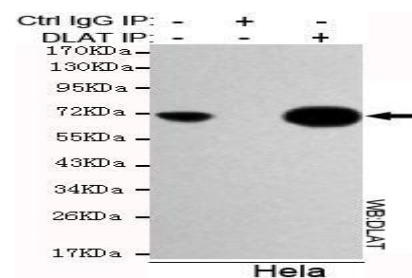
DATA:



Western blot detection of DLAT in Jurkat, A549, U251, F9, LNCAP&HeLa cell lysates using DLAT antibody (1:1000 diluted).



Immunocytochemistry stain of HeLa using DLAT antibody (1:300).



Immunoprecipitation analysis of HeLa cell lysates using DLAT antibody

Note:

For research use only, not for use in diagnostic procedure.

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