PDC-E2 monoclonal antibody

Catalog: MB66539 Host: Mouse Reactivity: Human, Mouse

BackGround:

Dihydrolipoamide acetyltransferase (DLAT) transfers an acetyl group from pyruvate to CoA to synthesize acetyl-CoA. This protein, also known as the E2 subunit of the pyruvate dehydrogenase complex (PDC-E2), has been implicated in the literature as the primary autoantigen in primary biliary cirrhosis. Antimitochondrial antibodies (AMAs) are likely formed when DLAT is exposed to the immune system in apoptotic cells of the bile duct. Research studies have shown that in some cases, cosmetics, NSAIDs, chewing gum, acetaminophen, and other compounds could trigger exposure of DLAT in sensitive individuals. The presence of AMAs is often detectable before disease diagnosis. Research studies have also shown that activation of the Toll-like receptor-3 (TLR-3) pathway is involved in the progression from a subclinical to clinical state.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 69 kDa

Swiss-Prot:

P10515

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/100), IP (1/10 - 1/50)

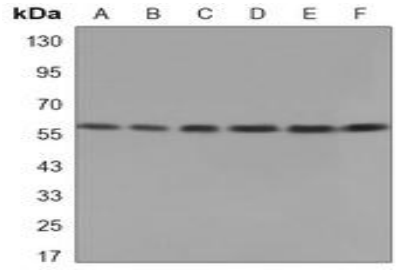
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

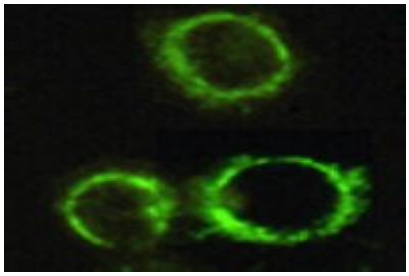
Specificity:

Recognizes endogenous levels of PDC-E2 protein.

DATA:



Western blot analysis of PDC-E2 expression in Jurkat (A), A549 (B), U251 (C), F9 (D), Lncap (E), Hela (F) whole cell lysates.



Immunofluorescent analysis of PDC-E2 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

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

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