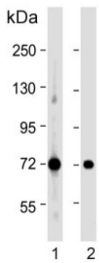
Pyruvate Dehydrogenase E2 Antibody / DLAT (F54820)

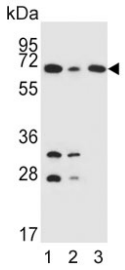
Catalog No.	Formulation	Size
F54820-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54820-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

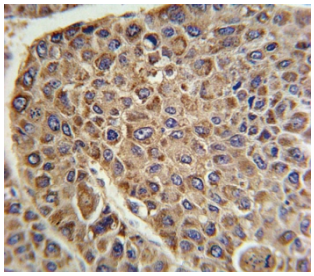
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P10515
Localization	Cytoplasmic
Applications	Flow Cytometry : 1:10-1:50 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:10-1:50 Western Blot : 1:500-1:1000
Limitations	This Pyruvate Dehydrogenase E2 antibody is available for research use only.



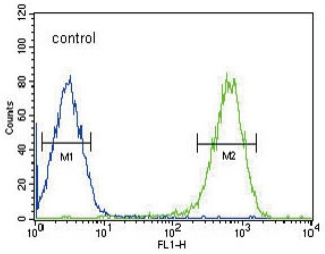
Western blot testing of human 1) LNCaP and 2) MCF7 cell lysate with Pyruvate Dehydrogenase E2 antibody. Predicted molecular weight ~69 kDa.



Western blot testing of human 1) K562, 2) HepG2 and 3) Jurkat cell lysate with Pyruvate Dehydrogenase E2 antibody. Predicted molecular weight ~69 kDa.



IHC testing of FFPE human hepatocellular carcinoma tissue with Pyruvate Dehydrogenase E2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human HepG2 cells with Pyruvate Dehydrogenase E2 antibody; Blue=isotype control, Green= Pyruvate Dehydrogenase E2 antibody.

Description

DLAT 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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Pyruvate Dehydrogenase E2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 579-607 from the human protein was used as the immunogen for the Pyruvate Dehydrogenase E2 antibody.

Storage

Aliquot the Pyruvate Dehydrogenase E2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.