

Pyruvate Dehydrogenase E2 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP52757

Product Information

Application	WB, ICC, IP
Primary Accession	P10515
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	68997

Additional Information

Gene ID	1737
Other Names	70 kDa mitochondrial autoantigen of primary biliary cirrhosis;anti DLAT; Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex; Dihydrolipoamide;Dihydrolipoamide S Acetyltransferase;Dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenase complex);Dihydrolipoamide S-Acetyltransferase;Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex;dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex mitochondrial;DLAT;DLAT;DLTA;E2;E2 component of pyruvate dehydrogenase complex;EC 2.3.1.12;M2 antigen complex 70 kDa subunit;M2 Antigen Complex 70kD Subunit;mitochondrial;ODP2_HUMAN;PBC;PDC E2;PDC-E2;PDCE2;Pyruvate dehydrogenase complex component E2;Pyruvate dehydrogenase complex E2 subunit;S acetyltransferase component of pyruvate dehydrogenase complex.
Dilution	WB~1:1000 ICC~1:300 IP~1:500
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	DLAT (HGNC:2896)
Synonyms	DLTA
Function	As part of the pyruvate dehydrogenase complex, catalyzes the transfers of an acetyl group to a lipoic acid moiety (Probable). The pyruvate

dehydrogenase complex, catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links cytoplasmic glycolysis and the mitochondrial tricarboxylic acid (TCA) cycle (Probable).

Cellular Location

Mitochondrion matrix {ECO:0000250 | UniProtKB:P08461}

Background

The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links the glycolytic pathway to the tricarboxylic cycle.

References

Totoki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.

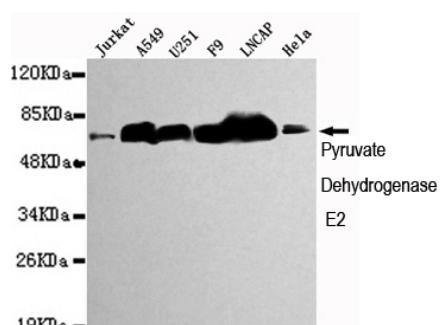
Taylor T.D.,et al.Nature 440:497-500(2006).

Coppel R.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:7317-7321(1988).

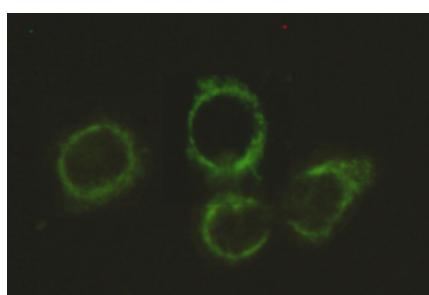
Thekkumkara T.J.,et al.FEBS Lett. 240:45-48(1988).

Hiromasa Y.,et al.J. Biol. Chem. 279:6921-6933(2004).

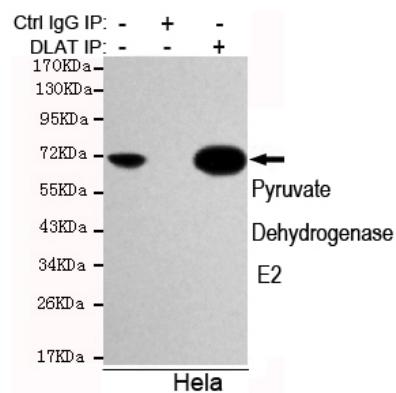
Images



Western blot detection of Pyruvate Dehydrogenase E2 in Jurkat,A549,U251,F9,Lncap and Hela cell lysates using Pyruvate Dehydrogenase E2 mouse mAb (1:1000 diluted).Predicted band size:69KDa.Observed band size:69KDa.



Immunocytochemistry stain of Hela using Pyruvate Dehydrogenase E2 mouse mAb (1:300).



Immunoprecipitation analysis of Hela cell lysates using Pyruvate Dehydrogenase E2 mouse mAb.

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