

Pyruvate Dehydrogenase E2 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52757**Specification**

Pyruvate Dehydrogenase E2 Antibody - Product Information

Application	WB, ICC, IP
Primary Accession	P10515
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	69 KDa

Pyruvate Dehydrogenase E2 Antibody - 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 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Pyruvate Dehydrogenase E2 Antibody - Protein Information**Name** DLAT ([HGNC:2896](#))**Synonyms** DLTA

Function

The pyruvate dehydrogenase (PDH) complex, catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂, and thereby links cytoplasmic glycolysis and the mitochondrial tricarboxylic acid (TCA) cycle (Probable). It contains multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and dihydrolipoamide dehydrogenase (E3); (Probable). Within this complex, the catalytic function of this enzyme is to accept, and to transfer to coenzyme A, acetyl groups from acetyl- lipoyl moiety generated by the pyruvate dehydrogenase, leading to acetyl-CoA formation (Probable).

Cellular Location

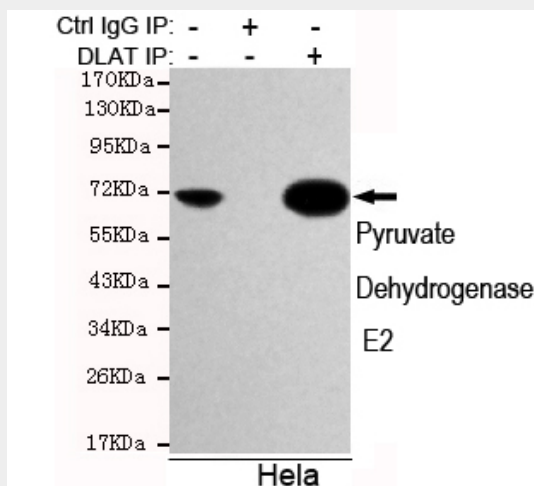
Mitochondrion matrix {ECO:0000250|UniProtKB:P08461}

Pyruvate Dehydrogenase E2 Antibody - Protocols

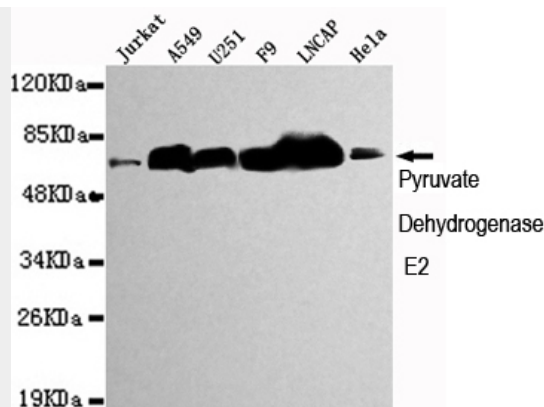
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

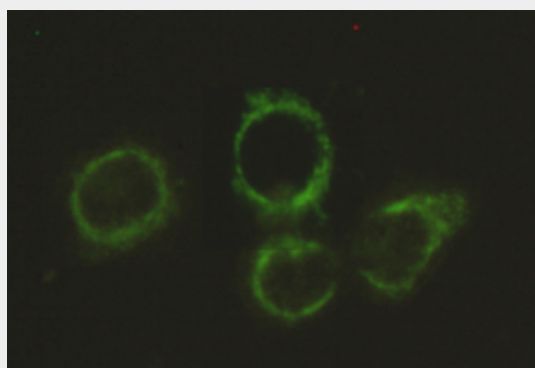
Pyruvate Dehydrogenase E2 Antibody - Images



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



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).

Pyruvate Dehydrogenase E2 Antibody - Background

The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂, and thereby links the glycolytic pathway to the tricarboxylic cycle.

Pyruvate Dehydrogenase E2 Antibody - 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).