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KD-Validated Anti-Pyruvate Dehydrogenase E2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1623

Specification

KD-Validated Anti-Pyruvate Dehydrogenase E2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P10515
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted , 69 kDa , observed , 69 kDa KDa**
Gene Name	**DLAT**
Aliases	**DLAT; Dihydrolipoamide S-Acetyltransferase; PBC;DLTA; PDC-E2; PDCE2; M2 Antigen Complex 70 KDa Subunit; E2 Component Of Pyruvate Dehydrogenase Complex; EC 2.3.1.12; Dihydrolipoamide Acetyltransferase Component Of Pyruvate Dehydrogenase Complex; Dihydrolipoyllysine-Residue Acetyltransferase Component Of Pyruvate Dehydrogenase Complex Mitochondrial; Pyruvate Dehydrogenase Complex Component E2; 70 KDa Mitochondrial Autoantigen Of Primary Biliary Cirrhosis; EC 2.3.1**
Immunogen	**A synthesized peptide derived from human Pyruvate Dehydrogenase E2**

KD-Validated Anti-Pyruvate Dehydrogenase E2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**1737**

Other Names
Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial, 2.3.1.12, 70 kDa mitochondrial autoantigen of primary biliary cirrhosis, PBC, Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex, M2 antigen complex 70 kDa subunit, Pyruvate dehydrogenase complex component E2, PDC-E2, PDCE2, DLAT (HGNC:2896), DLTA

KD-Validated Anti-Pyruvate Dehydrogenase E2 Rabbit Monoclonal 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 CO(2), 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).

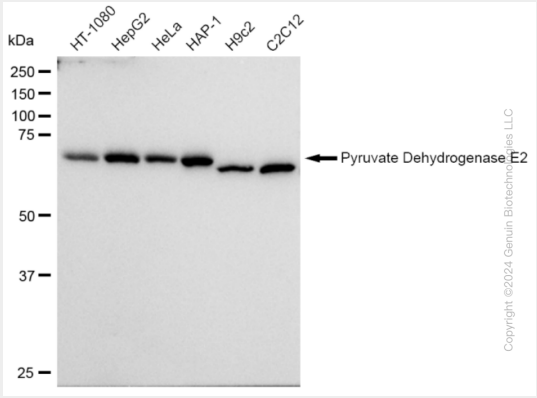
Cellular Location
Mitochondrion matrix {ECO:0000250|UniProtKB:P08461}

KD-Validated Anti-Pyruvate Dehydrogenase E2 Rabbit Monoclonal 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 Cytomety
- Cell Culture

KD-Validated Anti-Pyruvate Dehydrogenase E2 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Pyruvate Dehydrogenase E2 antibody (Cat#AGI1623). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Pyruvate Dehydrogenase E2 antibody (Cat#AGI1623, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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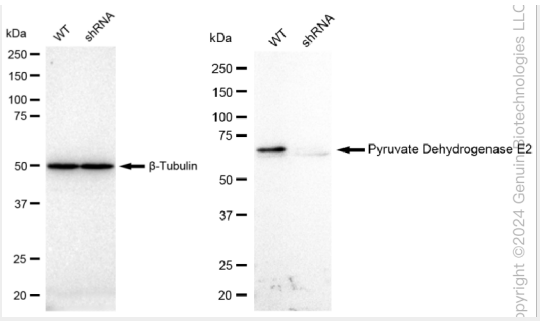
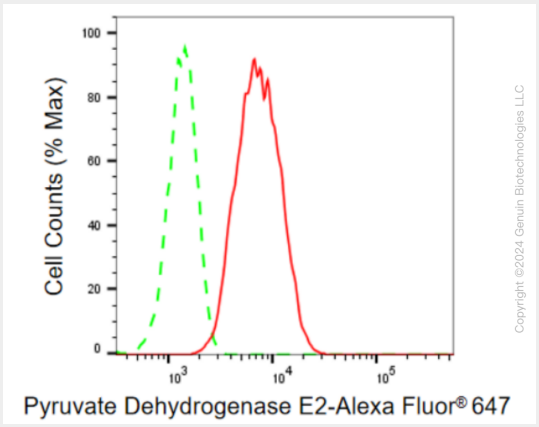
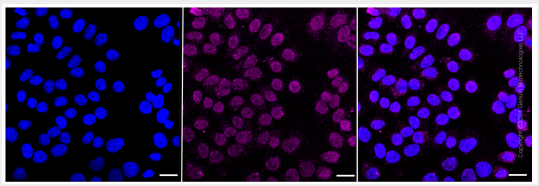


Western blotting analysis using anti-Pyruvate Dehydrogenase E2 antibody (Cat#AGI1623). Pyruvate Dehydrogenase E2 expression in wild type (WT) and Pyruvate Dehydrogenase E2 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Pyruvate Dehydrogenase E2 antibody (Cat#AGI1623, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Pyruvate Dehydrogenase E2 expression in HepG2 cells using Pyruvate Dehydrogenase E2 antibody (Cat#AGI1623, 1:2,000). Green, isotype control; red, Pyruvate Dehydrogenase E2.



Immunocytochemical staining of HepG2 cells with Pyruvate Dehydrogenase E2 antibody (Cat#AGI1623, 1:1,000). Nuclei were stained blue with DAPI; Pyruvate Dehydrogenase E2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.