

**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	<a href="#">P10515</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted , 69 kDa , observed , 69 kDa
Gene Name	KDa
Aliases	DLAT 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 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=2896](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=2896))>HGNC:2896</a>), DLTA

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

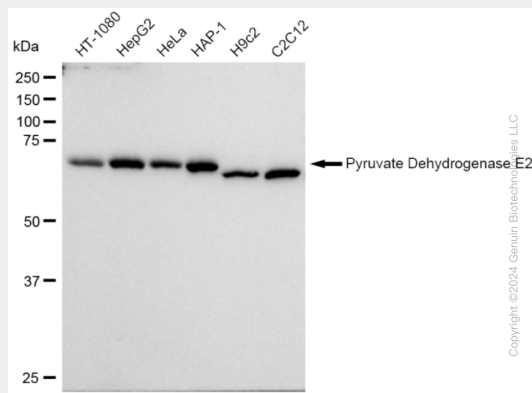
Mitochondrion matrix {ECO:0000250|UniProtKB:P08461}

## KD-Validated Anti-Pyruvate Dehydrogenase E2 Rabbit Monoclonal Antibody - Protocols

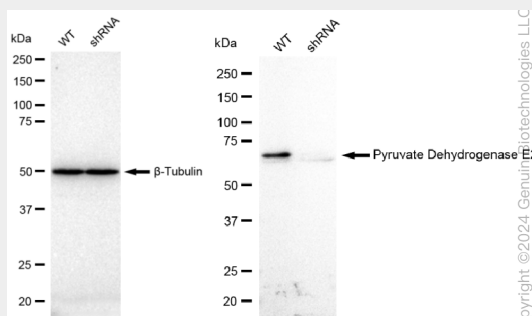
Provided below are standard protocols that you may find useful for product applications.

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

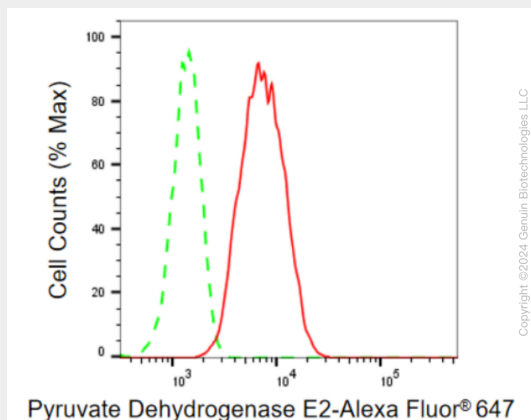
## KD-Validated Anti-Pyruvate Dehydrogenase E2 Rabbit Monoclonal Antibody - Images



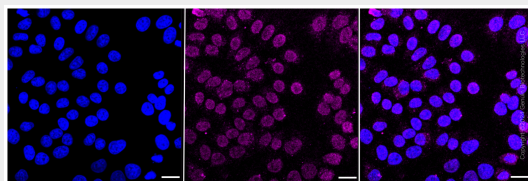
Western blotting analysis using anti-Pyruvate Dehydrogenase E2 antibody (Cat#AGI1623). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Pyruvate Dehydrogenase E2 antibody (Cat#AGI1623, 1:5,000) and HRP-conjugated goat anti-rabbit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



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  $\mu$ g of total cell lysates.  $\beta$ -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  $\mu$ m.