

KD-Validated Anti-DLAT Rabbit Monoclonal Antibody Rabbit monoclonal antibody Catalog # AGI2363

Specification

KD-Validated Anti-DLAT Rabbit Monoclonal Antibody - Product Information

Application Primary Accession Reactivity	WB, FC, ICC <u>P10515</u> Rat, Human, Mouse
Cionality	Monocional Robbit la C
Calculated MW	Predicted, 69 kDa : Observed, 71 kDa KDa
Gene Name	DLAT
Aliases	DLAT; Dihydrolipoamide
	S-Acetyltransferase; PDC-E2; DLTA; E2;
	Dihydrolipoyllysine-Residue
	Acetyltransferase Component Of Pyruvate;
	Dehydrogenase Complex, Mitochondrial;
	Dihydrolipoamide Acetyltransferase
	Component Of Pyruvate Dehydrogenase
	Complex; 70 KDa Mitochondrial
	Autoantigen Of Primary Biliary Cirrhosis;
	E2 Component Of Pyruvate Dehydrogenase
	Complex; Pyruvate Dehydrogenase
	Complex Component E2; M2 Antigen
	Complex 70 KDa Subunit; EC 2.3.1.12;
	PDCE2; PBC; Dinyarolipoyllysine-Residue
	Acetyltransferase; EC 2.3.1
Immunogen	A synthesized peptide derived from human

KD-Validated Anti-DLAT Rabbit Monoclonal Antibody - Additional Information

Gene ID

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

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KD-Validated Anti-DLAT 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-DLAT Rabbit Monoclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

KD-Validated Anti-DLAT Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-DLAT antibody (Cat#AGI2363). Total cell lysates ($30 \mu g$) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-DLAT antibody (Cat#AGI2363, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.





Western blotting analysis using anti-DLAT antibody (Cat#AGI2363). DLAT expression in wild type (WT) and DLAT shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. GAPDH serves as a loading control. The blot was incubated with anti-DLAT antibody (Cat#AGI2363, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of DLAT expression in HepG2 cells using DLAT antibody (Cat#AGI2363, 1:2,000). Green, isotype control; red, DLAT.



Immunocytochemical staining of HepG2 cells with DLAT antibody (Cat#AGI2363, 1:1,000). Nuclei were stained blue with DAPI; DLAT was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.