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KD-Validated Anti-DLAT Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2363

Specification

KD-Validated Anti-DLAT 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, 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; Dihydrolipoyllysine-Residue Acetyltransferase; EC 2.3.1**
Immunogen	**A synthesized peptide derived from human DLAT**

KD-Validated Anti-DLAT 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-DLAT 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).

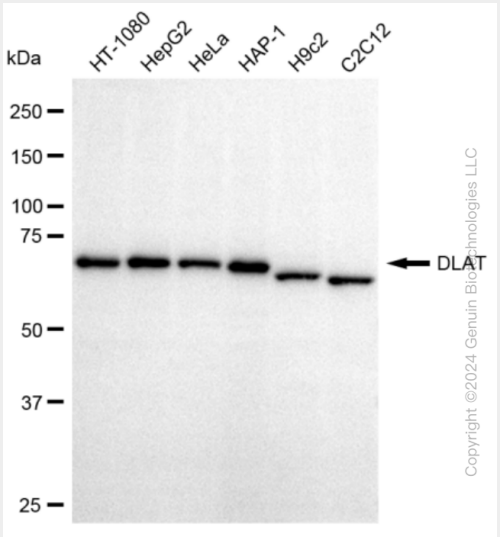
Cellular Location
Mitochondrion matrix {ECO:0000250|UniProtKB:P08461}

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



Western blotting analysis using anti-DLAT antibody (Cat#AGI2363). Total cell lysates (30 µg) 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.

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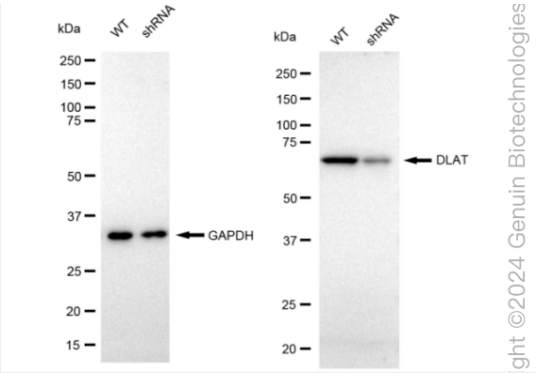
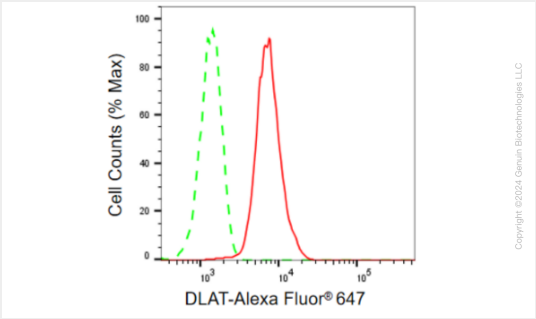
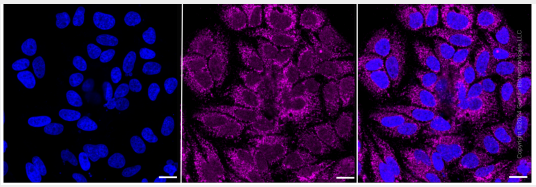


Western blotting analysis using anti-DLAT antibody (Cat#AGI2363). DLAT expression in wild type (WT) and DLAT shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. GAPDH serves as a loading control. The blot was incubated with anti-DLAT antibody (Cat#AGI2363, 1:5,000) and HRP-conjugated goat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