

Mouse anti-Human, Mouse DLAT Monoclonal Antibody | anti-DLAT antibody

DLAT (Pyruvate Dehydrogenase E2) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA111276	Mouse	Human, Mouse	Immunoprecipitation, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

DLAT; Monoclonal Antibody; DLAT (Pyruvate Dehydrogenase E2) Antibody; dihydrolipoamide S-acetyltransferase; PDC-E2; PDCE2; Pyruvate dehydrogenase complex component E2; DLTA; PBC; M2 antigen complex 70 kDa subunit; anti-DLAT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Specificity	This antibody detects endogenous levels of DLAT and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50%, glycerol
Sequence Length	647
Applicable Applications for anti-DLAT antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Purified recombinant human DLAT protein fragments expressed in E Coli.
Cellular Localization	Mitochondrion matrix

IMAGES



Application Data

Immunoprecipitation analysis of HeLa cell lysates using DLAT antibody.



Application Data

Western blot detection of DLAT in Jurkat, A549, U251, F9, LNCAP & HeLa cell lysates using DLAT antibody (1:1000 diluted). Predicted band size: 69KDa. Observed band size: 69KDa.



Application Data

Immunocytochemistry stain of HeLa using DLAT antibody (1:300).

ADDITIONAL INFORMATION

Related Product Information for anti-DLAT antibody	UniPort Summary Function: he pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO2. It contains multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). Entrez Summary: This gene encodes component E2 of the multi-enzyme pyruvate dehydrogenase complex (PDC). PDC resides in the inner mitochondrial membrane and catalyzes the conversion of pyruvate to acetyl coenzyme A. The protein product of this gene, dihydrolipoamide acetyltransferase, accepts acetyl groups formed by the oxidative decarboxylation of pyruvate and transfers them to coenzyme A. Dihydrolipoamide acetyltransferase is the antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95% of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC eventually leads to cirrhosis and liver failure. Mutations in this gene are also a cause of pyruvate dehydrogenase E2 deficiency which causes primary lactic acidosis in infancy and early childhood
Product Categories/Family for anti-DLAT antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	31711992
NCBI GeneID	1737
NCBI Accession #	NP_001922.2
NCBI GenBank Nucleotide #	NM_001931.4
UniProt Accession #	P10515; Q16783; Q53EP3
Molecular Weight	69kDa
NCBI Official Full Name	dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial
NCBI Official Synonym Full Names	dihydrolipoamide S-acetyltransferase
NCBI Official Symbol	DLAT
NCBI Official Synonym Symbols	DLTA; PDCE2; PDC-E2
NCBI Protein Information	dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial
UniProt Protein Name	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial
UniProt Gene Name	DLAT
UniProt Synonym Gene Names	DLTA; PBC; PDC-E2; PDCE2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.