



Rabbit Anti-DLDD/Lipoamide Dehydrogenase antibody

SL18295R

Product Name:	DLDD/Lipoamide Dehydrogenase
Chinese Name:	硫辛酰胺脱氢酶抗体
Alias:	Dehydrogenase complex, E3 component; Diaphorase; Dihydrolipoamide dehydrogenase; Dihydrolipoyl dehydrogenase; Dihydrolipoyl dehydrogenase mitochondrial; dld; DLDD; DLDH; DLDH_HUMAN; E3; E3 branched chain alpha-keto acid; E3 component of pyruvate dehydrogenase; E3 component of pyruvate dehydrogenase complex 2 oxo glutarate complex branched chain keto acid dehydrogenase complex; GCSL; Glycine cleavage system L protein; Glycine cleavage system protein L; LAD; lipoamide dehydrogenase; Lipoamide reductase; Lipoyl dehydrogenase; mitochondrial; OTTHUMP00000206744; OTTHUMP00000206746; OTTHUMP00000206748; OTTHUMP00000206749; PHE 3; PHE3; Pyruvate dehydrogenase component E3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Sheep,Xenopus laevis
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	The nucleuscytoplasmic Mitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DLDD/Lipoamide Dehydrogenase:241-340/509
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. In homodimeric form, the encoded protein functions as a dehydrogenase and is found in several multi-enzyme complexes that regulate energy metabolism. However, as a monomer, this protein can function as a protease. Mutations in this gene have been identified in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]</p> <p>Function: Lipoamide dehydrogenase is a component of the glycine cleavage system as well as of the alpha-ketoacid dehydrogenase complexes. Involved in the hyperactivation of spermatazoa during capacitation and in the spermatazoal acrosome reaction.</p> <p>Subcellular Location: Mitochondrion matrix.</p> <p>Post-translational modifications: Tyrosine phosphorylated.</p> <p>DISEASE: Note=Defects in DLD are involved in the development of congenital infantile lactic acidosis. Defects in DLD are a cause of maple syrup urine disease (MSUD) [MIM:248600]. MSUD is characterized by mental and physical retardation, feeding problems and a maple syrup odor to the urine. The keto acids of the branched-chain amino acids are present in the urine, resulting from a block in oxidative decarboxylation.</p> <p>Similarity: Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family.</p> <p>SWISS: P09622</p> <p>Gene ID: 1738</p> <p>Database links: Entrez Gene: 1738 Human</p>

[Entrez Gene: 403978](#) Dog

[Entrez Gene: 13382](#) Mouse

[Entrez Gene: 397129](#) Pig

[Entrez Gene: 298942](#) Rat

[Omim: 238331](#) Human

[SwissProt: P49819](#) Dog

[SwissProt: P09622](#) Human

[SwissProt: O08749](#) Mouse

[SwissProt: P09623](#) Pig

[SwissProt: Q6P6R2](#) Rat

[Unigene: 131711](#) Human

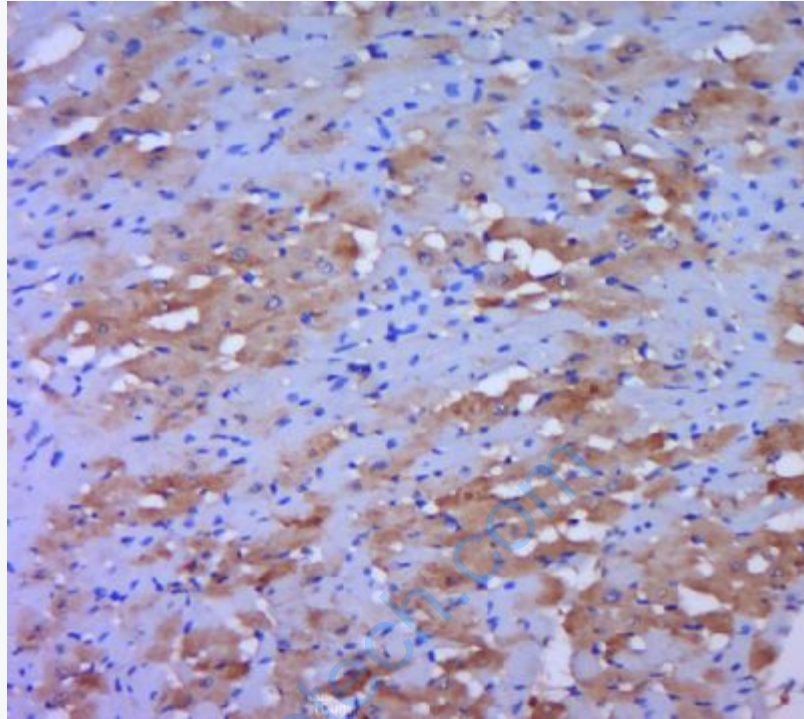
[Unigene: 3131](#) Mouse

[Unigene: 86962](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DLDD) Polyclonal Antibody, Unconjugated (SL18295R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.