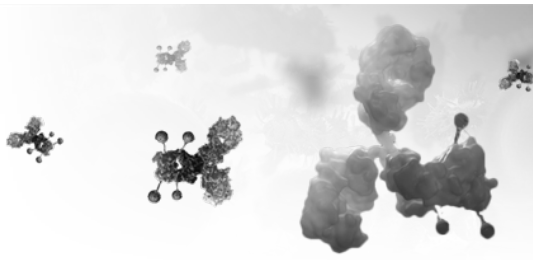

Rabbit Anti-Human DLD Polyclonal Antibody (CABT-L2119)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Dihydrolipoyl Dehydrogenase (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against DLD. It has been selected for its ability to recognize DLD in immunohistochemical staining and western blotting.
Target	DLD
Immunogen	Recombinant fragment corresponding to human DLD (Gly280~His487)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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]
Keywords	LAD;GCSL;Dihydrolipoamide Dehydrogenase;E3 Component Of Pyruvate Dehydrogenase Complex;2-Oxo-Glutarate Complex;Branched Chain Keto Acid Dehydrogenase Complex

GENE INFORMATION

Gene Name	DLD dihydrolipoamide dehydrogenase [Homo sapiens (human)]
Official Symbol	DLD
Synonyms	DLD; dihydrolipoamide dehydrogenase; E3; LAD; DLDD; DLDH; GCSL; PHE3; dihydrolipoyl dehydrogenase, mitochondrial; diaphorase; lipoamide reductase; lipoyl dehydrogenase; lipoamide dehydrogenase; glycine cleavage system L protein; glycine cleavage system protein L; E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex;
Entrez Gene ID	1738
Protein Refseq	NP_000099
UniProt ID	A0A024R713
Chromosome Location	7q31-q32
Pathway	2-oxobutanoate degradation; 2-oxobutanoate degradation I; 2-oxoglutarate decarboxylation to succinyl-CoA; 2-oxoisovalerate decarboxylation to isobutanoyl-CoA; Branched-chain amino acid catabolism; Carbon metabolism; Citrate cycle (TCA cycle); Citrate cycle (TCA cycle, Krebs cycle);

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Function	NADP binding; dihydrolipoyl dehydrogenase activity; flavin adenine dinucleotide binding; mercury (II) reductase activity; mercury ion binding;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221