ARG56303
anti-Lipoamide Dehydrogenase antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Lipoamide Dehydrogenase
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Lipoamide Dehydrogenase
Species	Human
Immunogen	Recombinant protein of Human Lipoamide Dehydrogenase
Conjugation	Un-conjugated
Alternate Names	DLDH; LAD; Dihydrolipoamide dehydrogenase; DLDD; PHE3; EC 1.8.1.4; Glycine cleavage system L protein; Dihydrolipoyl dehydrogenase, mitochondrial; GCSL; E3

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: BT474

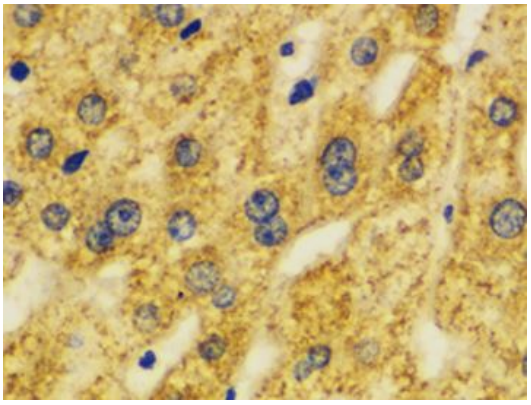
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

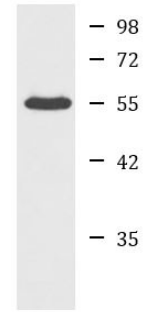
Database links	GeneID: 13382 Mouse GeneID: 1738 Human Swiss-port # O08749 Mouse Swiss-port # P09622 Human
Gene Symbol	DLD
Gene Full Name	dihydrolipoamide dehydrogenase
Background	This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. The encoded protein has been 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]
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. [UniProt]
Calculated Mw	54 kDa
PTM	Tyrosine phosphorylated.

Images



ARG56303 anti-Lipoamide Dehydrogenase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver injury stained with ARG56303 anti-Lipoamide Dehydrogenase antibody at 1:100 dilution.



ARG56303 anti-Lipoamide Dehydrogenase antibody WB image

Western blot: BT474 cell lysate stained with ARG56303 anti-Lipoamide Dehydrogenase antibody.