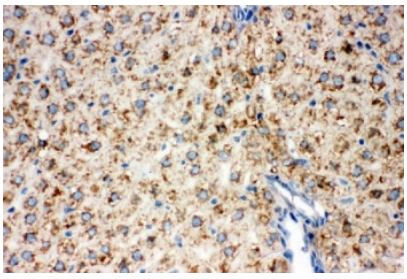
Lipoamide Dehydrogenase Antibody (R30535)

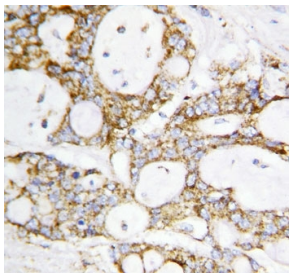
Catalog No.	Formulation	Size
R30535	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

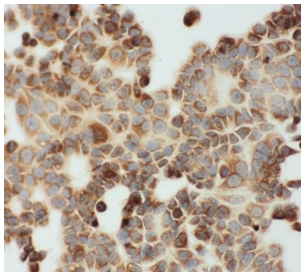
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P09622
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunocytochemistry: 2-5ug/ml Immunofluorescence: 5ug/ml
Limitations	This Lipoamide Dehydrogenase antibody is available for research use only.



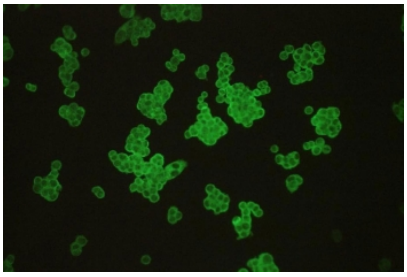
IHC staining of FFPE rat liver tissue with Lipoamide Dehydrogenase antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



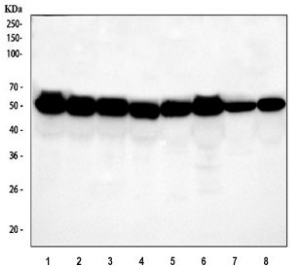
IHC staining of FFPE human breast cancer tissue with Lipoamide Dehydrogenase antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



ICC staining of FFPE human MCF7 cells with Lipoamide Dehydrogenase antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Immunofluorescent staining of FFPE human HCT116 cells with Lipoamide Dehydrogenase antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human K562, 2) human A431, 3) human SiHa, 4) human U-251, 5) rat liver, 6) rat heart, 7) mouse liver and 8) mouse heart tissue lysate with Lipoamide Dehydrogenase antibody. Predicted molecular weight ~54 kDa.

Description

DLD, Dihydrolipoamide dehydrogenase, is a component of the pyruvate dehydrogenase complex, the alpha-ketoglutarate dehydrogenase complex, and the branched-chain alpha-keto acid dehydrogenase complex(BCKD). DLD is a flavoprotein enzyme that degrades lipoamide, and produces dihydrolipoamide. The DLD gene contains 14 exons. The gene is localized to 7q31-q32. This gene encodes the L protein of the mitochondrial glycine cleavage system. The L protein, also named dihydrolipoamide dehydrogenase, is also a component of the pyruvate dehydrogenase complex, the alpha-ketoglutarate dehydrogenase complex, and the branched-chain alpha-keto acide dehydrogenase complex.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Lipoamide Dehydrogenase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Lipoamide Dehydrogenase (EAFREANLAASFGKSINF) was used as the immunogen for this Lipoamide Dehydrogenase antibody.

Storage

After reconstitution, the Lipoamide Dehydrogenase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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