

## Basic Information

<b>Product Name</b>	Anti-DLD Antibody	
<b>Gene Name</b>	DLD	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, ICC/IF	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the C-terminus of human DLD, different from the related mouse and rat sequences by one amino acid.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	54 kDa	
<b>Dilution Ratios</b>	Western blot (WB): 1:1000-5000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

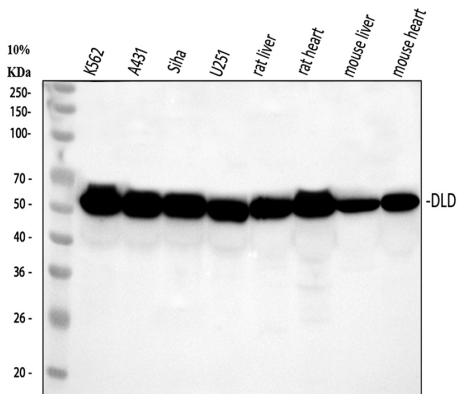
## Background Information

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 acid dehydrogenase complex.

## Reference

Anti-DLD Antibody被引用在1文献中。

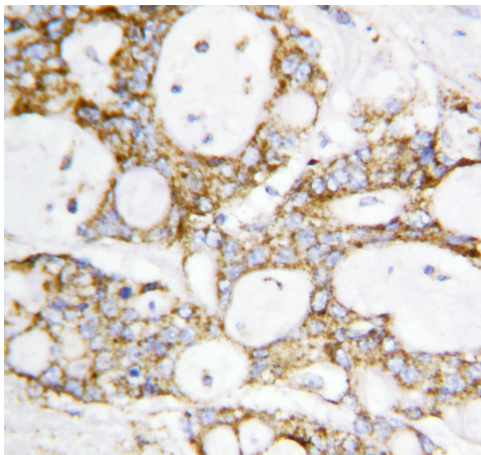
## Selected Validation Data



Western blot analysis of DLD using anti-DLD antibody (PA1463). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

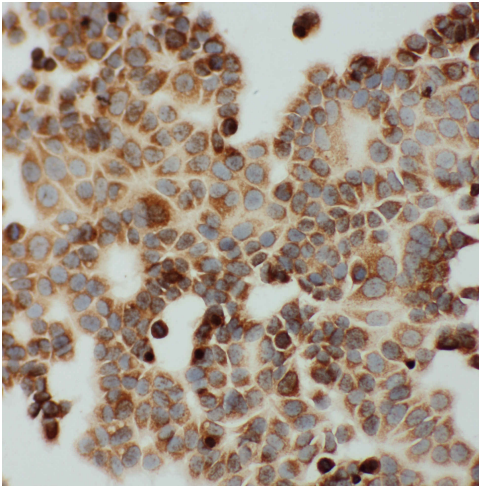
Lane 1: human K562 whole cell lysates,  
Lane 2: human A431 whole cell lysates,  
Lane 3: human SiHa whole cell lysates,  
Lane 4: human U251 whole cell lysates,  
Lane 5: rat liver tissue lysates,  
Lane 6: rat heart tissue lysates,  
Lane 7: mouse liver tissue lysates,  
Lane 8: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-DLD antigen affinity purified polyclonal antibody (PA1463) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for DLD at approximately 54 kDa. The expected band size for DLD is at 54 kDa.



IHC analysis of DLD using anti-DLD antibody (PA1463).

DLD was detected in a paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-DLD Antibody (PA1463) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC analysis of DLD using anti- DLD antibody (PA1463).

DLD was detected in an immunocytochemical section of MCF-7 cells. The section was incubated with rabbit anti-DLD Antibody (PA1463) at a dilution of 1:100. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.