



# DLDH rabbit pAb

<b>Catalog No</b>	BYab-17288
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human, Mouse,Rat
<b>Applications</b>	IHC,WB
<b>Gene Name</b>	DLD GCSL LAD PHE3
<b>Protein Name</b>	Dihydrolipoyl dehydrogenase, mitochondrial (EC 1.8.1.4) (Dihydrolipoamide dehydrogenase) (Glycine cleavage system L protein)
<b>Immunogen</b>	Synthesized peptide derived from human C-terminal DLDH
<b>Specificity</b>	This antibody detects endogenous levels of DLDH at Human, Mouse,Rat
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Rabbit,polyclonal
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1:500-2000 IHC 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Dihydrolipoyl dehydrogenase, mitochondrial (EC 1.8.1.4) (Dihydrolipoamide dehydrogenase) (Glycine cleavage system L protein)
<b>Observed Band</b>	
<b>Cell Pathway</b>	Mitochondrion matrix . Nucleus . Cell projection, cilium, flagellum . Cytoplasmic vesicle, secretory vesicle, acrosome . Mainly localizes in the mitochondrion. A small fraction localizes to the nucleus, where the 2-oxoglutarate dehydrogenase complex is required for histone succinylation. .
<b>Tissue Specificity</b>	
<b>Function</b>	Lipoamide dehydrogenase is a component of the glycine cleavage system as well as an E3 component of three alpha-ketoacid dehydrogenase complexes (pyruvate-, alpha-ketoglutarate-, and branched-chain amino acid-dehydrogenase complex) . The 2-oxoglutarate dehydrogenase complex is mainly active in the mitochondrion . A fraction of the 2-oxoglutarate dehydrogenase complex also localizes in the nucleus and is required for lysine succinylation of histones: associates with KAT2A on chromatin and provides succinyl-CoA to histone succinyltransferase KAT2A . In monomeric form may have additional moonlighting function as serine protease . Involved in the hyperactivation of

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spermatazoa during capacitation and in the spermatazoal acrosome reaction (By similarity).

#### Background

#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images

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