DLDH mouse mAb

Catalog No	YP-mAb-17288
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	DLD GCSL LAD PHE3
Immunogen	Synthesized peptide derived from human C-ternal DLDH
Specificity	This antibody detects endogenous levels of DLDH at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	mouse,Monoclonal
Purification	The antibody was affinity-purified from mouse serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DLDH;EC:1.8.1.4;GCSL;LAD;PHE3;DLD;DLD GCSL LAD PHE3;Dihydrolipoyl dehydrogenase;mitochondrial (EC 1.8.1.4) (Dihydrolipoamide dehydrogenase) (Glycine cleavage system L protein); mitochondrial (EC 1.8.1.4) (Dihydrolipoamide dehydrogenase) (Glycine cleavage system L protein)
Calculated Molecular Weight	509 aa, 54 kDa
Cell Pathway	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. .
Tissue Specificity	
Function	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 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.

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