

# Lipoamide Dehydrogenase Rabbit mAb

Catalog # AP78392

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC
<b>Primary Accession</b>	<a href="#">P09622</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human DLDH
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	54177

## Additional Information

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<b>Gene ID</b>	1738
<b>Other Names</b>	DLD
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	DLD
<b>Synonyms</b>	GCSL, LAD, PHE3
<b>Function</b>	<p>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) (PubMed:<a href="#">15712224</a>, PubMed:<a href="#">16442803</a>, PubMed:<a href="#">16770810</a>, PubMed:<a href="#">17404228</a>, PubMed:<a href="#">20160912</a>, PubMed:<a href="#">20385101</a>). The 2-oxoglutarate dehydrogenase complex is mainly active in the mitochondrion (PubMed:<a href="#">29211711</a>). 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 (PubMed:<a href="#">29211711</a>). In monomeric form may have additional moonlighting function as serine protease (PubMed:<a href="#">17404228</a>). Involved in the</p>

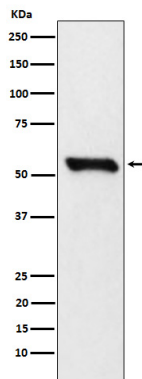
hyperactivation of spermatazoa during capacitation and in the spermatazoal acrosome reaction (By similarity).

### Cellular Location

Mitochondrion matrix. Nucleus. Cell projection, cilium, flagellum {ECO:0000250|UniProtKB:Q811C4}. Cytoplasmic vesicle, secretory vesicle, acrosome. Note=Mainly localizes in the mitochondrion. A small fraction localizes to the nucleus, where the 2- oxoglutarate dehydrogenase complex is required for histone succinylation.

### Images

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