

**Product Name: Pyruvate Dehydrogenase E1 alpha (3H2)**  
**Mouse Monoclonal Antibody**  
**Catalog #: AMM03428**

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## Summary

<b>Production Name</b>	Pyruvate Dehydrogenase E1 alpha (3H2) Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB, ICC/IF
<b>Reactivity</b>	Human, Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
<b>Purification</b>	Affinity Purification

## Immunogen

<b>Gene Name</b>	PDHA1 mitochondrial; ODP4_HUMAN; PDH; PDHA; PDHA1; PDHCE1A; PDHE1 A type I; PDHE1-A type I; PHE1A; Pyruvate Dehydrogenase (lipoamide) alpha 1; Pyruvate dehydrogenase complex; E1 alpha polypeptide 1; Pyruvate Dehydrogenase E1 alpha; Pyruvate dehydrogenase E1 component subunit alpha; Pyruvate dehydrogenase E1 component subunit alpha; somatic form; mitochondrial; somatic form.
<b>Alternative Names</b>	
<b>Gene ID</b>	5160
<b>SwissProt ID</b>	P08559.

## Application

<b>Dilution Ratio</b>	WB: 1:500-1:1000 IF: 1:50-1:200
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**Molecular Weight**

Calculated MW: 43 kDa; Observed MW: 43 kDa

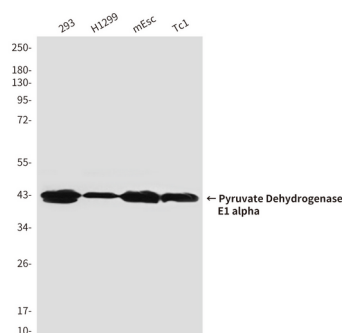
## Background

The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). Catalyzes the removal of CO<sub>2</sub> from pyruvate. Mutations in the  $\alpha$  subunits of pyruvate dehydrogenase (E1) lead to congenital defects that are usually associated with lactic acidosis, neurodegeneration and early death.

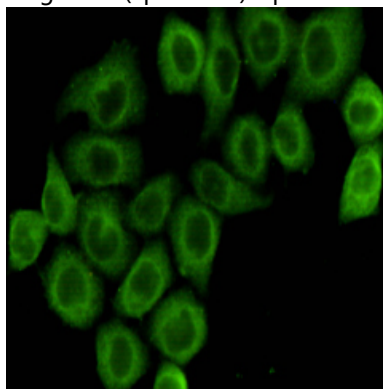
## Research Area

Signal Transduction

## Image Data



Western blot analysis of pyruvate dehydrogenase (lipoamide) alpha 1 in 293, 1299, mEsc and Tc1 lysates using pyruvate dehydrogenase (lipoamide) alpha 1 antibody.



Immunocytochemistry analysis of Pyruvate Dehydrogenase E1 alpha (3H2) in HeLa using pyruvate dehydrogenase (lipoamide) alpha 1 antibody.



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**Note**

For research use only.