

**Product Name: Pyruvate Dehydrogenase E1 alpha Rabbit Monoclonal Antibody**  
**Catalog #: AMRe03791**

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## Summary

<b>Production Name</b>	Pyruvate Dehydrogenase E1 alpha Rabbit Monoclonal Antibody
<b>Description</b>	Recombinant Rabbit Monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ICC/IF,IP
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal Antibody
<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>	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
<b>Purification</b>	Affinity Purified

## Immunogen

<b>Gene Name</b>	PDHA1
<b>Alternative Names</b>	mitochondrial; ODP <sub>A</sub> _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>Gene ID</b>	5160
<b>SwissProt ID</b>	P08559

## Application

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**Dilution Ratio**

WB: 1/500-1/1000 IF: 1/50-1/200 IP: 1/20

**Molecular Weight**

Calculated MW: 43 kDa; Observed MW: 43 kDa

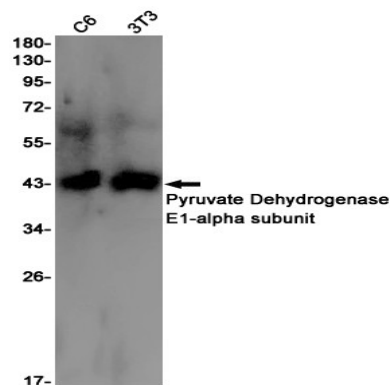
## Background

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.

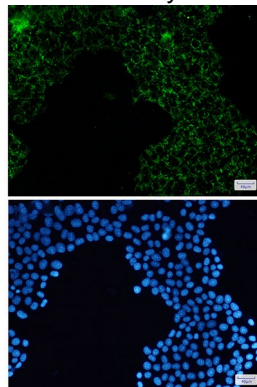
## Research Area

Signal Transduction

## Image Data



Western blot analysis of Pyruvate Dehydrogenase E1alpha subunit in C6, 3T3 lysates using Pyruvate Dehydrogenase E1 alpha antibody.



Immunocytochemistry analysis of Pyruvate Dehydrogenase E1alpha subunit(green) in HeLa using Pyruvate Dehydrogenase E1alpha subunit antibody,and DAPI(blue)



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**Note**

For research use only.