

# PDHA1 (phospho S293) polyclonal antibody (DyLight 650)

Catalog # PAB15339

Size 50 uL

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic phosphopeptide of PDHA1.
<b>Immunogen</b>	Synthetic phosphopeptide corresponding to residues surrounding S293 human PDHA1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Specificity</b>	This is specific for the phosphorylated Serine 293 form of the PDHE1 alpha protein. It is recommended that BSA rather than non-fat milk be used in membrane blocking and antibody dilution. This antibody is useful for Immunocytochemistry/immunofluorescence and Western blot, where a band is seen ~ 43 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.
<b>Form</b>	Liquid
<b>Conjugation</b>	DyLight 650
<b>Purification</b>	Immunogen affinity purification
<b>Recommend Usage</b>	Immunocytochemistry/Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 50 mM sodium borate (0.05% sodium azide).
<b>Storage Instruction</b>	Store at 4°C in the dark.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

- Immunocytochemistry
- Immunofluorescence

## Gene Info — PDHA1

Entrez GeneID [5160](#)

Protein Accession# [P08559](#)

Gene Name PDHA1

Gene Alias PDHA, PDHCE1A, PHE1A

Gene Description pyruvate dehydrogenase (lipoamide) alpha 1

Omim ID [300502 308930 312170](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The pyruvate dehydrogenase complex is a nuclear-encoded mitochondrial matrix multienzyme complex that provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA. The PDH complex is composed of multiple copies of 3 enzymes: E1 (PDHA1); dihydrolipoyl transacetylase (DLAT; MIM 608770) (E2; EC 2.3.1.12); and dihydrolipoyl dehydrogenase (DLD; MIM 238331) (E3; EC 1.8.1.4). The E1 enzyme is a heterotetramer of 2 alpha and 2 beta subunits. The E1-alpha subunit contains the E1 active site and plays a key role in the function of the PDH complex (Brown et al., 1994 [PubMed 7853374]).[supplied by OMIM]

**Other Designations** OTTHUMP00000023015|pyruvate dehydrogenase E1 alpha subunit

## Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)

- [Butanoate metabolism](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pyruvate metabolism](#)
- [Valine](#)