

# **ODPA Polyclonal Antibody**

## Description

Product type Primary Antibody

Code BT-AP12184

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen Synthesized peptide derived from human protein . at AA range: 230-310

Mol wt N/A

Species reactivity Human, Mouse, Rat

Clonality Polyclonal

Recommended application WB, ELISA

Concentration 1 mg/ml

Full name Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial

Synonyms Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial ;EC 1.2.4.1;PDHE1-A

type I

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

## Background

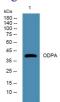
The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

### Recommended Dilution

WB: 1: 500 - 1: 2000 ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

## **Images**



Western blot analysis of lysates from U2OS cells, primary antibody was diluted at 1:1000, 4°C overnight

#### Storage

-20°C for 1 year