

Pyruvate Dehydrogenase Phosphatase 2 (PDP2) Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10732

Specification

Pyruvate Dehydrogenase Phosphatase 2 (PDP2) Antibody - Product Information

Application	WB
Primary Accession	O9P2J9
Other Accession	NP_065837.1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	59978

Pyruvate Dehydrogenase Phosphatase 2 (PDP2) Antibody - Additional Information

Gene ID 57546

Positive Control	Jurkat cell lysate, 3T3 cell lysate
Application & Usage	Western blot analysis (1-4 µg/ml). However, the optimal conditions should be determined individually. Jurkat or 3T3 cell lysate can be used as a positive control.

Other Names

pyruvate dehydrogenase (lipoamide) E1 component, beta subunit precursor; pyruvate decarboxylase.; pyruvate dehydrogenase, Pyruvic dehydrogenase, Sphingobacterium spiritivorum ATCC 33861

Target/Specificity

PDP2

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

200 µg (0.5 mg/ml) affinity purified rabbit anti-PDPC polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Pyruvate Dehydrogenase Phosphatase 2 (PDP2) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Pyruvate Dehydrogenase Phosphatase 2 (PDP2) Antibody - Protein Information

Name PDP2 ([HGNC:30263](#))

Synonyms KIAA1348

Function

Mitochondrial enzyme that catalyzes the dephosphorylation and concomitant reactivation of the alpha subunit of the E1 component of the pyruvate dehydrogenase complex (PDC), thereby stimulating the conversion of pyruvate into acetyl-CoA (By similarity). Acts as a crucial regulator of T cell metabolism and function, with a particular focus on T-helper Th17 (By similarity).

Cellular Location

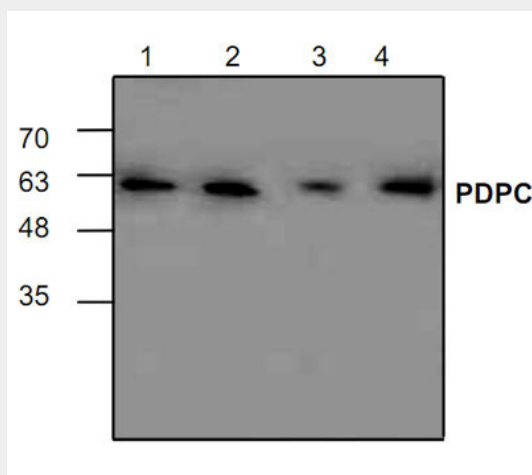
Mitochondrion {ECO:0000250|UniProtKB:O88484}.

Pyruvate Dehydrogenase Phosphatase 2 (PDP2) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Pyruvate Dehydrogenase Phosphatase 2 (PDP2) Antibody - Images



Western blot analysis of PDP2 with lysate from Jurkat cells (Lane 1 & 2), 3T3 cells (Lane 3) and rat kidney tissue (Lane 4).

Pyruvate Dehydrogenase Phosphatase 2 (PDP2) Antibody - Background

PDP2, Pyruvate dehydrogenase phosphatase 2, catalyzes the dephosphorylation and activation of E1 component to reverse the effects of pyruvate dehydrogenase kinases. Pyruvate dehydrogenase (E1) is one of the three components (E1, E2, and E3) of the large pyruvate dehydrogenase complex.