



# Anti-PDP1 polyclonal antibody (CABT-BL2870)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Recombinant protein corresponding to amino acids of human PPM2C.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen affinity purification
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IHC
<b>Format</b>	Liquid
<b>Buffer</b>	In PBS, pH 7.5 (40% glycerol, 0.02% sodium azide)
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

## BACKGROUND

<b>Introduction</b>	Pyruvate dehydrogenase (E1) is one of the three components (E1, E2, and E3) of the large pyruvate dehydrogenase;complex. Pyruvate dehydrogenase kinases catalyze phosphorylation of serine residues of E1 to inactivate the E1;component and inhibit the complex. Pyruvate dehydrogenase phosphatases catalyze the dephosphorylation and activation;of the E1 component to reverse the effects of pyruvate dehydrogenase kinases. Pyruvate dehydrogenase phosphatase is a;heterodimer consisting of catalytic and regulatory subunits. Two catalytic
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subunits have been reported; one is;predominantly expressed in skeletal muscle and another one is is much more abundant in the liver. The catalytic;subunit, encoded by this gene, is the former, and belongs to the protein phosphatase 2C (PP2C) superfamily. Along with;the pyruvate dehydrogenase complex and pyruvate dehydrogenase kinases, this enzyme is located in the mitochondrial;matrix. Mutation in this gene causes pyruvate dehydrogenase phosphatase deficiency. Multiple alternatively spliced;transcript variants encoding different isoforms have been identified.

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## GENE INFORMATION

Entrez Gene ID	<a href="#">54704</a>
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Protein Refseq	<a href="#">NP_001155250</a>
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UniProt ID	<a href="#">Q9P0J1</a>
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