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Product datasheet for AP53246PU-N

PDP1 (Center) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**ELISA:** 1/1000. **Western Blot:** 1/100-1/500. **Immunohistochemistry on Paraffin Sections:** 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 366-395 amino acids from the Central region of Human PDP1
Specificity:	This antibody recognizes Human PDP1 (Center).
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column, followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	pyruvate dehyrogenase phosphatase catalytic subunit 1
Database Link:	Entrez Gene 54704 Human Q9P0J1

View online »

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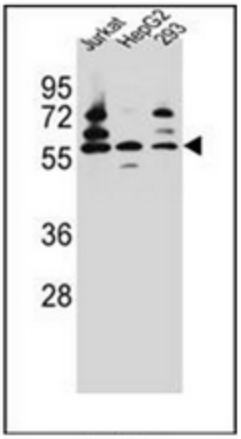
Background: Pyruvate dehydrogenase (E1) is one of the three components (E1, E2, and E3) of the large pyruvate dehydrogenase complex. Pyruvate dehydrogenase kinases catalyze phosphorylation of serine residues of E1 to inactivate the E1 component and inhibit the complex. Pyruvate dehydrogenase phosphatases 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 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.

Synonyms: PDP, PPM2C, Protein phosphatase 2C, PDPC1

Note: **Molecular Weight:** 61054 Da

Protein Families: Druggable Genome, Phosphatase

Product images:



Western blot analysis of PDP1 Antibody (Center) in Jurkat, HepG2, 293 cell line lysates (35ug/lane). This demonstrates the PDP1 antibody detected the PDP1 protein (arrow).

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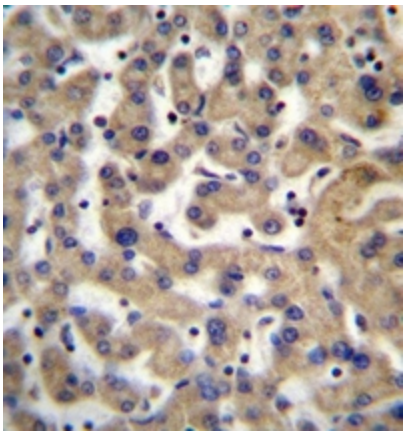

Immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue reacted with PDP1 Antibody (Center) followed by peroxidase conjugation of the secondary antibody and DAB staining.

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