Rabbit anti-Human PDP1 Polyclonal Antibody | anti-PDP1 antibody

PDP1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286348	**Rabbit**	**Human**	**Western Blot, Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

PDP1; Polyclonal Antibody; PDP1 Antibody (Center); [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1; mitochondrial; PDP 1; Protein phosphatase 2C; Pyruvate dehydrogenase phosphatase catalytic subunit 1; PDPC 1; PDP; PPM2C; anti-PDP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PDP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 308-336 amino acids from the Central region of human PDP1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.33 (varies by lot)
Sequence Positions	308-336
Sequence Length	562
Applicable Applications for anti-PDP1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

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

IHC (Immunohistochemistry)
PDP1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PDP1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL INFORMATION

Related Product Information for anti-PDP1 antibody	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.
References	Kato, J., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 66 (PT 3), 342-345 (2010) : Cameron, J.M., et al. Hum. Genet. 125(3):319-326(2009) Stellingwerff, T., et al. Am. J. Physiol. Endocrinol. Metab. 290 (2), E380-E388 (2006) : Maj, M.C., et al. J. Clin. Endocrinol. Metab. 90(7):4101-4107(2005) Piccinini, M., et al. Obes. Res. 13(4):678-686(2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	239985422
NCBI GeneID	54704
NCBI Accession #	NP_001155251.1; NP_001155252.1; NP_001155253.1; NP_060914.2
NCBI GenBank Nucleotide #	NM_001161779.1
UniProt Accession #	Q9P0J1; Q5U5K1; B3KX71; J3KPU0
Molecular Weight	61054
NCBI Official Full Name	pyruvate dehyrogenase phosphatase catalytic subunit 1 isoform 2
NCBI Official Synonym Full Names	pyruvate dehyrogenase phosphatase catalytic subunit 1
NCBI Official Symbol	PDP1
NCBI Official Synonym Symbols	PDH; PDP; PDPC; PPM2C
NCBI Protein Information	pyruvate dehyrogenase phosphatase catalytic subunit 1
UniProt Protein Name	[Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial
UniProt Gene Name	**PDP1**
UniProt Synonym Gene Names	PDP; PPM2C; PDP 1; PDPC 1
UniProt Entry Name	PDP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/pdp1-antibody-western-blot-immunohistochemistry-elisa/286348