

# KO-Validated PDP1 Mouse Oligoclonal Antibody



## Catalog #: 71167

### Aliases

PDP1; Pyruvate Dehydrogenase Phosphatase Catalytic Subunit 1; PDP; PPM2A; PPM2C; PDH; [Pyruvate Dehydrogenase [Acetyl-Transferring]]-Phosphatase 1, Mitochondrial; Protein Phosphatase 2C, Magnesium-Dependent, Catalytic Subunit; Protein Phosphatase, Mg<sup>2+</sup>/Mn<sup>2+</sup> Dependent 2A; EC 3.1.3.43; PDPC 1; Pyruvate Dehydrogenase (Lipoamide) Phosphatase-Phosphatase; Pyruvate Dehydrogenase Phosphatase Catalytic Subunit 1; Protein Phosphatase 2C; EC 3.1.3; PDP 1; PDPC

### Background

Gene Name: PDP1

NCBI Gene Entry: 54704

UniProt Entry: Q9P0J1

### Application Information

Molecular Weight: Predicted, 61 kDa; observed, 53-60 kDa

Clonality: Mouse oligoclonal antibody

Species Reactivity: Human, mouse, rat

Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (ICC)

### Immunogen

Recombinant protein of human PDP1

### Isotype

Mouse IgG

### Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, 0.5% BSA and 0.09% sodium azide

### Storage

Store at -20 °C for one year.

### Recommended Dilutions

Western Blotting (WB): 1:500-1:2,500

Immunocytochemistry (ICC): 1:100-1:1,000

Flow Cytometry (FCM) : 1:2,000

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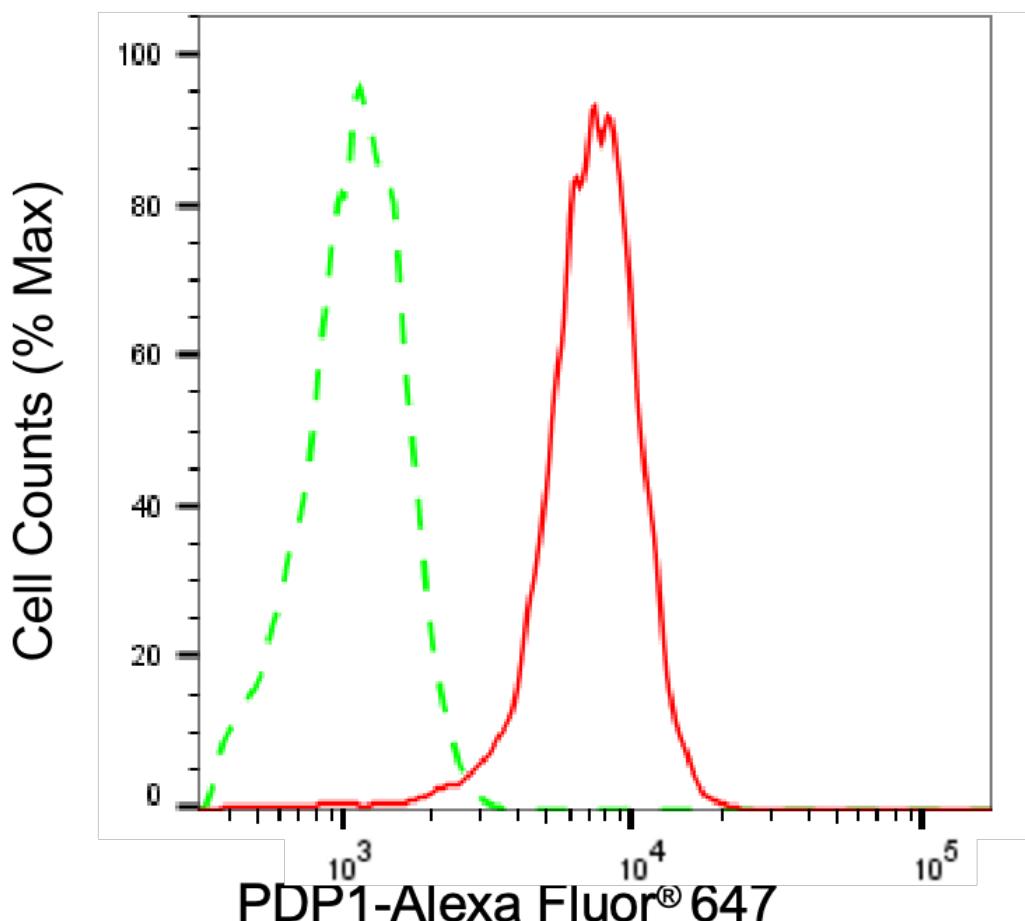
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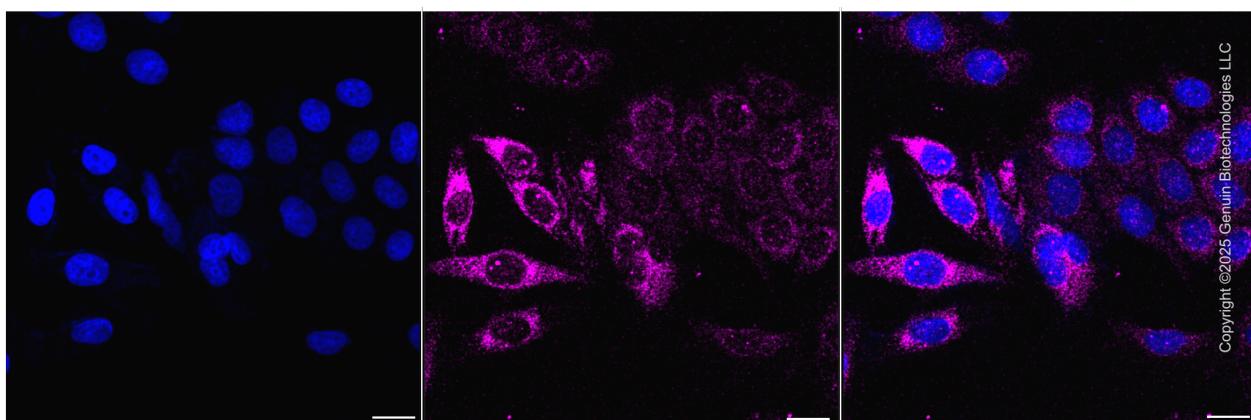
**Note:** This product is for research use only.

## Validation Data



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Flow cytometric analysis of PDP1 expression in HepG2 cells using PDP1 antibody (Cat#71167, 1:2,000). Green, isotype control; red, PDP1.



Immunocytochemical staining of HepG2 cells with PDP1 antibody (Cat#71167, 1:1,000). Nuclei

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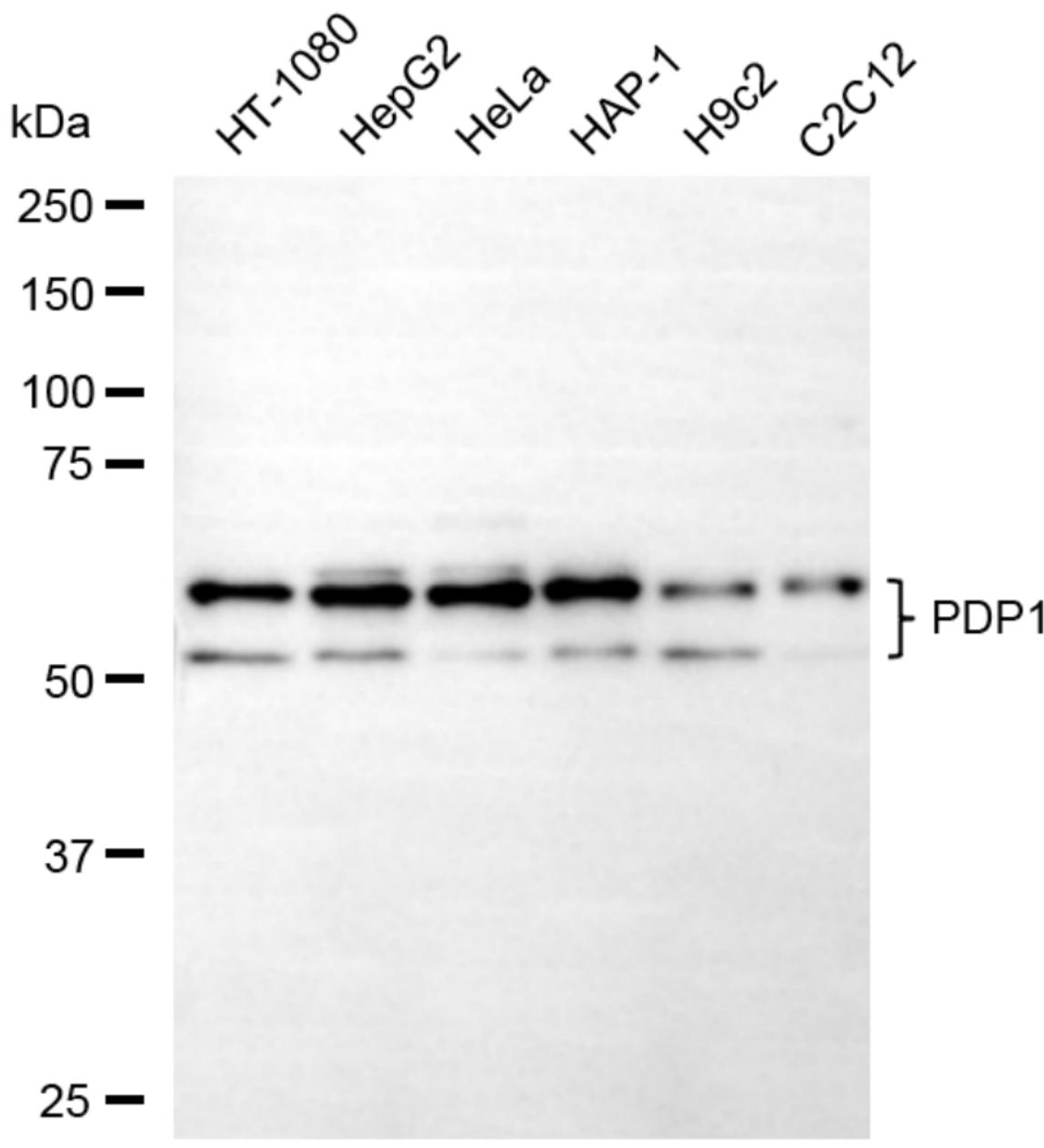
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were stained blue with DAPI; PDP1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20  $\mu$ m.



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Western blotting analysis using PDP1 antibody (Cat#71167). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PDP1 antibody (Cat#71167, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).

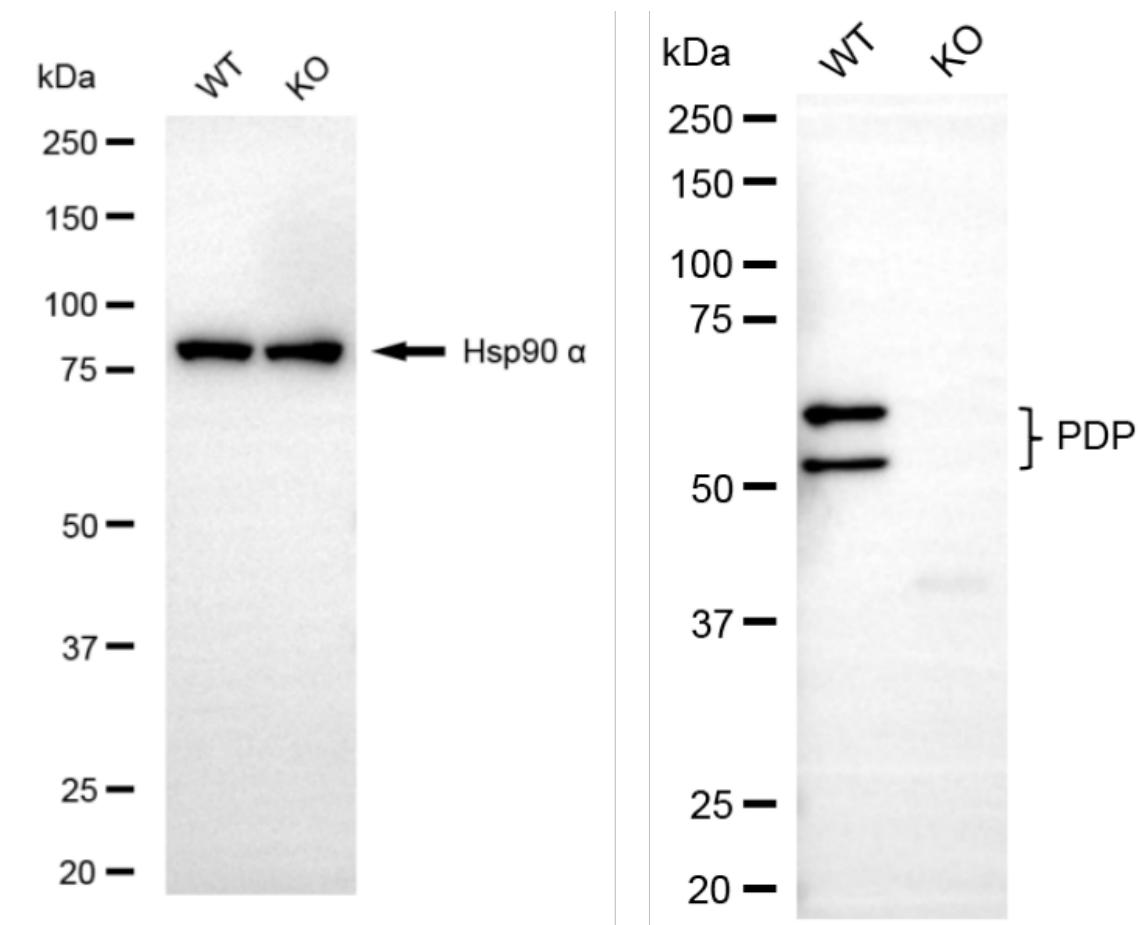
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Western blotting analysis using PDP1 antibody (Cat#71167). PDP1 expression in wild type (WT) and PDP1 knockout (KO) HT-1080 cells with 20 µg of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with PDP1 antibody (Cat#71167, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).