

PDP1 polyclonal antibody

Catalog: BS60681

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

Pyruvate dehydrogenase phosphatase (PDP) is a serine phosphatase that catalyzes the dephosphorylation and re-activation of the alpha subunit of the E1 component of the mitochondrial pyruvate dehydrogenase multienzyme complex. PDP is a heterodimer that consists of catalytic and regulatory subunits. PDPc (pyruvate dehydrogenase phosphatase, catalytic subunit 1), also known as Protein phosphatase 2C, is a 537 amino acid protein that is localized within the mitochondrial matrix. PDPc is stimulated by calcium binding and utilizes two magnesium ions as cofactors. PDPc efficiently dephosphorylates all three phosphorylation sites located on the alpha chain of the E1 component, which simultaneously activates pyruvate dehydrogenase to convert pyruvate to acetyl-CoA for utilization in the Krebs's Cycle. Defects in the gene encoding PDPc are the cause of pyruvate dehydrogenase phosphatase deficiency, which results in lactic acidosis and neurological dysfunction.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

Molecular Weight:

~ 61 kDa

Swiss-Prot:

Q9P0J1

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

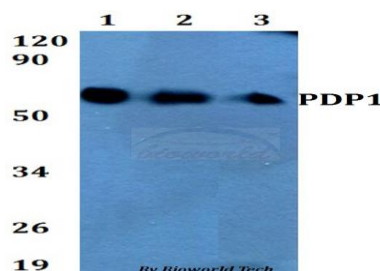
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

PDP1 polyclonal antibody detects endogenous levels of PDP1 protein.

DATA:



Western blot (WB) analysis of PDP1 polyclonal antibody at 1:500 dilution

Lane1:A549 whole cell lysate

Lane2:sp2/0 whole cell lysate

Lane3:MCF-7 whole cell lysate

Note:

For research use only, not for use in diagnostic procedure.

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