Best Tools for immunology Research

PDP1 Polyclonal Antibody

Catalog No :	YN1129
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	PDP1
Gene Name :	PDP1 PDP PPM2C
Protein Name :	[Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial (PDP 1) (EC 3.1.3.43) (Protein phosphatase 2C) (Pyruvate dehydrogenase phosphatase catalytic subunit 1) (PDPC 1)
Human Gene Id :	54704
Human Swiss Prot No :	Q9P0J1
Mouse Swiss Prot No :	Q3UV70
Rat Swiss Prot No :	O88483
Immunogen :	Synthesized peptide derived from human protein . at AA range: 180-260
Specificity :	PDP1 Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 59kD

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 enzy

Function : catalytic activity:[Pyruvate dehydrogenase (acetyl-transferring)] phosphate + H(2)O = [pyruvate dehydrogenase (acetyl-transferring)] + phosphate.,cofactor:Binds 2 magnesium ions per subunit.,disease:Defects in PDP1 are the cause of pyruvate dehydrogenase phosphatase deficiency (PDP deficiency) [MIM:608782]. PDP deficiency results in lactic acidosis leading to neurological dysfunction.,function:Catalyzes the dephosphorylation and concomitant reactivation of the alpha subunit of the E1 component of the pyruvate dehydrogenase complex.,similarity:Belongs to the PP2C family.,subunit:Heterodimer of a catalytic (PDP1) and a regulatory (PDPR) subunit.,

Subcellular Location : Mitochondrion matrix .

Expression : Adrenal gland,Skin,Testis,

Sort : 20863

No4 : 1

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