Product Datasheet

PDP1 antibody

Catalog No: #38831

Package Size: #38831-1 50ul #38831-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

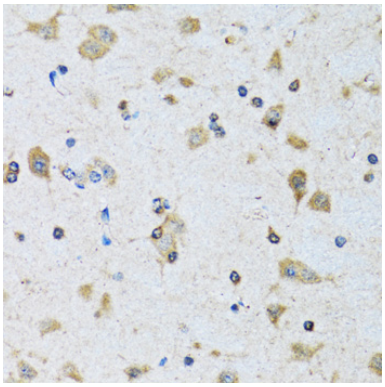
Description

Product Name	PDP1 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total PDP1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PDP1.
Target Name	PDP1
Other Names	PDH; PDP; PDPC; PPM2C;
Accession No.	Swiss-Prot#: Q9P0J1NCBI Gene ID: 54704
Uniprot	Q9P0J1
GeneID	54704;
SDS-PAGE MW	61kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

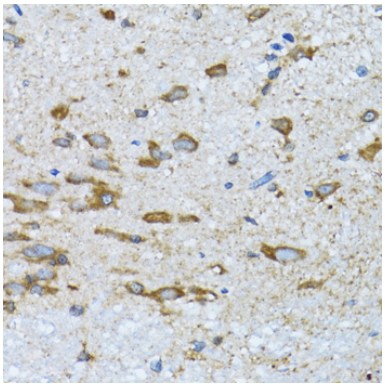
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200

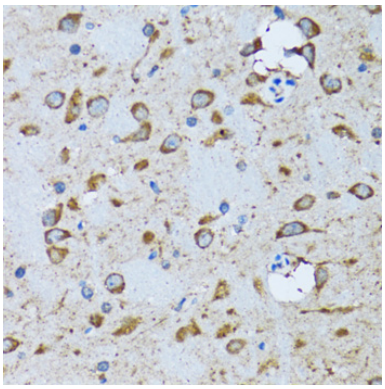
Images



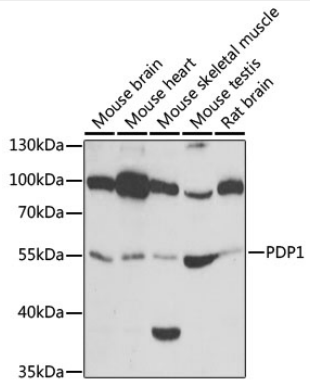
Immunohistochemistry of paraffin-embedded rat brain using PDP1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse spinal cord using PDP1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse brain using PDP1 at dilution of 1:100 (40x lens).



Western blot analysis of extracts of various cell lines, using PDP1 at 1:1000 dilution.

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.

Note: This product is for in vitro research use only