



PDXP mouse mAb

Catalog No	YP-mAb-19446
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	PDXP CIN PLP PLPP
Immunogen	Synthesized peptide derived from human PDXP. AA range:42-112
Specificity	This antibody detects endogenous levels of PDXP at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	PDXP CIN PLP PLPP;Pyridoxal phosphate phosphatase (PLP phosphatase) (Chronophin)
Observed Band	
Calculated Molecular Weight	33kD
Cell Pathway	Cytoplasm , cytosol . Cytoplasm , cytoskeleton . Cell projection , ruffle membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell projection , lamellipodium membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Colocalizes with the actin cytoskeleton in membrane ruffles and lamellipodia. Diffusely distributed throughout the cytosol during pro-metaphase and metaphase. Detected at the dynamic cell poles during telophase. Detected at the cleavage furrow and contractile ring during cytokinesis. Transiently detected at the plasma membrane in late stages of cytokinesis. Detected at the midbody. .
Tissue Specificity	Ubiquitously expressed (at protein level) (PubMed:23223568) . Highly expressed in all the regions of central nerve system except the spinal cord. Also expressed at high level in liver and testis. In fetus , it is weakly expressed in all organs except brain (PubMed:14522954 , PubMed:15580268) .
Function	Functions as a pyridoxal phosphate (PLP) phosphatase , which also catalyzes the dephosphorylation of pyridoxine 5'-phosphate (PNP) and pyridoxamine 5'-phosphate (PMP) , with order of substrate preference PLP > PNP > PMP and therefore plays a role in vitamin B6 metabolism . Also functions as a protein serine phosphatase that specifically dephosphorylates 'Ser-3' in proteins of the



actin-depolymerizing factor (ADF) /cofilin family like CFL1 and DSTN. Thereby , regulates cofilin-dependent actin cytoskeleton reorganization , being required for normal progress through mitosis and normal cytokinesis. Does not dephosphorylate phosphothreonines in LIMK1. Does not dephosphorylate peptides containing phosphotyrosine .

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images