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PPM2C Rabbit pAb

Catalog # AP100263

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9P0J1
Other Accession	Q9P0J1
Reactivity	Dog
Predicted	Rat, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61054
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PPM2C
Epitope Specificity	51-150/537
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the PP2C family.
SUBUNIT	Heterodimer of a catalytic (PDP1) and a regulatory (PDPR) subunit (By similarity).
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PPM2C is a protein similar to members of the protein phosphatase 2C (PP2C) family. It is a catalytic subunit of the mitochondrial matrix phosphatase and is involved in reactivation of the pyruvate dehydrogenase complex.

Additional Information

Gene ID	54704
Other Names	PDH; PDP; PDPC; PDPC 1; PPM2A; PPM2C; Gm1024; PDP1_HUMAN; PDP1; PDP 1; Protein phosphatase 2C; Pyruvate dehydrogenase phosphatase catalytic subunit 1 (PDPC 1); 3.1.3.43; PDP1_MOUSE; PDP1_RAT; pyruvate dehydrogenase phosphatase catalytic subunit 1; protein phosphatase 2C, magnesium-dependent, catalytic subunit; protein phosphatase, Mg2+/Mn2+ dependent 2A
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000 -10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PDP1 (HGNC:9279)
Synonyms	PDP, PPM2C
Function	Mitochondrial enzyme that catalyzes the dephosphorylation and concomitant reactivation of the alpha subunit of the E1 component of the pyruvate dehydrogenase complex (PDC), thereby stimulating the conversion of pyruvate into acetyl-CoA.
Cellular Location	Mitochondrion.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.