PDP2 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	PDP2, Blocking Peptide
Full Product Name	PDP2 Peptide - middle region
Product Gene Name	PDP2 blocking peptide
Product Synonym Gene Name	KIAA1348; PPM2C2
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	PDP2 peptide (MBS3238314) is used for blocking the activity of PDP2 antibody (MBS3213369)
Molecular Weight	60kDa
OMIM	615499
Product Categories/Family for PDP2 blocking peptide	Peptide
Applications Tested/Suitable for PDP2 blocking peptide	Western Blot (WB)
Related Product Information for PDP2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-PDP2 antibody made Target Description: PDP2 catalyzes the dephosphorylation and concomitant reactivation of the alpha subunit of the E1 component of the pyruvate dehydrogenase complex.
Other Notes	Small volumes of PDP2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PDP2 purchase	MBS3238314 is a blocking peptide targeting PDP2. Also known as PDP2 Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDP2. It may not necessarily be applicable to this product.

NCBI GI #	41349497
NCBI GeneID	57546
NCBI Accession #	NP_065837
UniProt Primary Accession #	Q9P2J9
UniProt Related Accession #	Q9P2J9
GenBank Nucleotide #	NM_020786
NCBI Official Full Name	[Pyruvate dehydrogenase
NCBI Official Synonym Full Names	pyruvate dehyrogenase phosphatase catalytic subunit 2
NCBI Official Symbol	PDP2
NCBI Official Synonym Symbols	PPM2B; PDPC 2; PPM2C2

UniProt Protein Name	[Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 2, mitochondrial
UniProt Synonym Protein Names	Pyruvate dehydrogenase phosphatase catalytic subunit 2; PDPC 2
Protein Family	PWWP domain-containing protein
UniProt Gene Name	PDP2
UniProt Synonym Gene Names	KIAA1348; PDP 2; PDPC 2
UniProt Entry Name	PDP2_HUMAN
NCBI Protein Information	[Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 2, mitochondrial
NCBI Summary for PDP2	This gene is a mitochondrial protein that functions as a phosphatase and is involved in the enzymatic resetting of the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Aug 2016]
UniProt Comments for PDP2	PDP2: a protein phosphoserine phosphatase associated with the mitochondrial matrix that activates phosphorylated pyruvate dehydrogenase complex by dephosphorylation. The PDPs play crucial roles in switching metabolic flux from glycolysis towards oxidative phosphorylation. Catalyzes the dephosphorylation and concomitant reactivation of the alpha subunit of the E1 component of the pyruvate dehydrogenase complex . PDP2 consists of only a catalytic subunit. Belongs to the PP2C family. Protein type: Protein phosphatase, Ser/Thr (non-receptor); Mitochondrial; EC 3.1.3.43 Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: mitochondrial matrix Molecular Function: [pyruvate dehydrogenase (lipoamide)] phosphatase activity; magnesium-dependent protein serine/threonine phosphatase activity; metal ion binding Biological Process: cellular metabolic process; protein amino acid dephosphorylation; pyruvate metabolic process; regulation of acetyl-CoA biosynthetic process from pyruvate
Research Articles on PDP2	**1.** ICER was found to bind to the Pdp2 promoter and suppress its expression. Furthermore, forced expression of PDP2 in CD4(+) cells reduced the in vitro Th17 differentiation, whereas shRNA-based suppression of PDP2 expression increased in vitro Th17 differentiation
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