Ppp1r1a Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	Ppp1r1a, Blocking Peptide
Full Product Name	Ppp1r1a Peptide - N-terminal region
Product Gene Name	Ppp1r1a blocking peptide
Product Synonym Gene Name	0610038N18Rik; I-1
Sequence	FTVPLLEPHL DPEAAEQIRR RRPTPATLVL TSDQSSPEID EDRIPNSLLK
Species Reactivity	Mouse, Human
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	Ppp1r1a peptide (MBS3231267) is used for blocking the activity of Ppp1r1a antibody (MBS3206301)
Molecular Weight	19kDa
Product Categories/Family for Ppp1r1a blocking peptide	Peptide
Applications Tested/Suitable for Ppp1r1a blocking peptide	Western Blot (WB)
Related Product Information for Ppp1r1a blocking peptide	This is a synthetic peptide designed for use in combination with anti-Ppp1r1a Antibody, made Target Description: Ppp1r1a is an inhibitor of protein-phosphatase 1. This protein may be important in hormonal control of glycogen metabolism. Hormones that elevate intracellular cAMP increase I-1 activity in many tissues. I-1 activation may impose cAMP control over proteins that are not directly phosphorylated by PKA. Following a rise in intracellular calcium, I-1 is inactivated by calcineurin (or PP2B). Does not inhibit type-2 phosphatases.
Other Notes	Small volumes of Ppp1r1a 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 Ppp1r1a purchase	MBS3231267 is a blocking peptide targeting Ppp1r1a. Also known as Ppp1r1a Peptide - N-terminal region. Reactive in Mouse, Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ppp1r1a. It may not necessarily be applicable to this product.

NCBI GI #	10946734
NCBI GeneID	58200
NCBI Accession #	NP_067366
UniProt Primary Accession #	Q9ERT9
UniProt Related Accession #	Q9ERT9
GenBank Nucleotide #	NM_021391
NCBI Official Full Name	protein phosphatase 1 regulatory subunit 1A
NCBI Official Synonym Full Names	protein phosphatase 1, regulatory inhibitor subunit 1A

NCBI Official Symbol	Ppp1r1a
NCBI Official Synonym Symbols	I-1; 0610038N18Rik
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 1A
UniProt Synonym Protein Names	Protein phosphatase inhibitor 1; I-1; IPP-1
Protein Family	Protein phosphatase 1 regulatory
UniProt Gene Name	Ppp1r1a
UniProt Synonym Gene Names	I-1; IPP-1
UniProt Entry Name	PPR1A_MOUSE
NCBI Protein Information	protein phosphatase 1 regulatory subunit 1A
UniProt Comments for Ppp1r1a	PPP1R1A: protein phosphatase 1, regulatory (inhibitor) subunit 1A. I-1 activation may impose cAMP control over proteins that are not directly phosphorylated by PKA. Following a rise in intracellular calcium, I-1 is inactivated by calcineurin (or PP2B). Does not inhibit type-2 phosphatases. Protein type: Inhibitor; Protein phosphatase, regulatory subunit Cellular Component: cytoplasm; extracellular space; intracellular Molecular Function: protein binding; protein phosphatase inhibitor activity; type 1 serine/threonine specific protein phosphatase inhibitor activity Biological Process: carbohydrate metabolic process; glycogen metabolic process; negative regulation of protein kinase activity; signal transduction
Research Articles on Ppp1r1a	**1.** I-1 and sarco/endoplasmic reticulum Ca2+ -ATPase synergistically induce the vascular smooth muscle cell contractile phenotype.
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