

Product datasheet for TP522264

PPP1R9B (NM_172261) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse protein phosphatase 1, regulatory subunit 9B (PPP1R9B), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species: Mouse
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >MR222264 representing NM_172261
Red=Cloning site Green=Tags(s)

MMKTEPRGPGGPLRSASPHRSAYEAGIQALKPPDAPGPDEAPKAAHHKKYGSNVHRIKSMFLQMGTTA
 GP
 PGEAGGGAGMAEAPRASDRGVRLSLPRASSLNENVDHSALLKLGTSVSRVSRFDSKPAPSAQPAPPPHP
 PSRLQETRKLFRERSVPAASGGDKEAVARRLLRQERAGLQDRKLDVVVRFNGSTEALDKLDADAVSPTVSQ
 LSAVFEKADSR TGLHRAPGPPRAAGAPQVNSKLVTKRSRVFQPPPPPPAPSGDGATEKERGGQPPQ
 H
 RVAPARPPPKPREVRKIKPVEVEESGESEAESAPGEVIQAEVTVHAALENGSTPATTASPAPEEPKAEAV
 PEEEEAASVATLARGVDNGRAPDMAPEEVDSEKEDFSEADLVVDSAYSGLGEDSGGSALEEDDEEDEED
 GEPPEYEPESGCVEIPGLSEEDPAPSRKIH FSTAPIQVFSTYSNEDYDRRNEDVDPMAASAEYELEKRV
 RLELFPVELEKDSEGLGSIIGMGAGADMGLEKLGIFVKTVTEGGAAHRDGRIQVNDLLVEVDGTSLVGV
 TQSF AASVLRNTKGRVRFMIGRERPGEQSEVAQLIQQTLEQERWQREMMEQRYAQYGEDDEETGEYATD
 E
 DEELSPTFPGGEMAIEVFELAENEDALSPVEMEPEKLVHFKELQIKHAVTEAEIQQLKRKLSLEQEK
 RWRVEKAQLEQSVEENKERMEKLEGYWGEAQLCQAVDEHLRETQAQYQALERKYSKAKRLIKDYQQKEI
 EFLK KETAQRRVLEESLARKEEMDKLLDKISELEGNLQTLRNSNST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK
Predicted MW: 90 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_758465
Locus ID:	217124
UniProt ID:	Q6R891
RefSeq Size:	4345
Cytogenetics:	11 D
RefSeq ORF:	2451
Synonyms:	SPL; Spn
Summary:	Seems to act as a scaffold protein in multiple signaling pathways. Modulates excitatory synaptic transmission and dendritic spine morphology. Binds to actin filaments (F-actin) and shows cross-linking activity. Binds along the sides of the F-actin. May play an important role in linking the actin cytoskeleton to the plasma membrane at the synaptic junction. Believed to target protein phosphatase 1/PP1 to dendritic spines, which are rich in F-actin, and regulates its specificity toward ion channels and other substrates, such as AMPA-type and NMDA-type glutamate receptors. Plays a role in regulation of G-protein coupled receptor signaling, including dopamine D2 receptors and alpha-adrenergic receptors. May establish a signaling complex for dopaminergic neurotransmission through D2 receptors by linking receptors downstream signaling molecules and the actin cytoskeleton. Binds to ADRA1B and RGS2 and mediates regulation of ADRA1B signaling. May confer to Rac signaling specificity by binding to both, RacGEFs and Rac effector proteins. Probably regulates p70 S6 kinase activity by forming a complex with TIAM1. Required for hepatocyte growth factor (HGF)-induced cell migration (By similarity).[UniProtKB/Swiss-Prot Function]