

## Product datasheet for TP312846M

### PHLPP2 (NM\_015020) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human PH domain and leucine rich repeat protein phosphatase-like (PHLPP), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212846 protein sequence Red=Cloning site Green=Tags(s)

MKRNGSRNCLNRRSRFGSRERDWLREDVKRGCVVLYGADTTTATTTTTSSSSSSSSSSDLHLVLCVETPASEICAGEGRESLYLQLHGDLVRRLEPTERPLQIVYDYLSRLGFDDPVRIQEEATNPDLGCMIRFYGKPCMDRLDRILLSGIYNVRKGTQLHKWAERLVVLCGTCLIVSSVKDCQTGKMHILPLVGGKIEEVKRRQYSLAFSSAGAQAQTYHVSFETLAEQYRWRQASKVVSQRISTVDLSCYSLEEVPEHLFYSQDITYLNLRHNFMQLERPGGLDTLYKFSQLKGLNLSHNKLGFPILLCEISTLTELNLSNGFHDLPDPSQIGNLLNLQTLCLDGNFLTTLPEELGNLQQLSSLGISFNFSQIPEVVEKLTMLDRVVMAGNCEVLNLGVLNRMNHIKHVDLRMNHLKTMVIENLEGNKHITHVDLRDNRDLTDLSSSLCSLEQLHCGRNQLRELTLSGFSRLTYASSNRLTAVNVYPVPSLLTFLDLSRNLLCVPDWACEAKKIEVLDVSYNLLTEVPVRILSSLSLRKMLGHNHVQNLPTLVEHIPLEVLDLQHNLTRLPDTLFSKALNRLYNASANSLESLSACTGEESLSMLQLLYLTNNLLTDQCIPVLVGHHLRILHLANNQLQTFPASKLNKLEQLEELNLSGNKLTPTTIANCKRLHTLVVAHNNISIFPEILQLPQIQFVDLSCNDLTEILPEALPATLQDLDLTGNTNLVLEHKTLDIFSHITLTKIDQKPLPTTDSTVTSTFWSHGLAEMAGQRNKLCSALAMDSFAEYGVAVYGMFDGDRNEELPRLLQCTMADVLL EEVQQSTNDTVFMANTFLVSHRKLGMAGQKLGSSALLCYIRPDTADPASSFSLTVANVTGCAVLCRGGKPVPLSKVFSLEQDPEEAQRVKDQKAIITEDNKVNGVTCCTRMLGCTYLPWILPKPHISSTPLTIQDELLILGNKALWEHLSYTEAVNAVRHVQDPLAAAKKCTLAQSYGCQDNVGMVYLNIGEEGCTCEMNGLTLP GPVGFASSTTIKDAPKPATPSSSSGIASEFSSEMSTSEVSEVSTASDEHNAGGLDTALLPRPERRCSLHPTPTSGLFQRQPSSATFSSNQSDNGLDSDDDQPVGEVITNGSKVEVEVDIHCGRDRLENSPPLIESSPTLCSEEHARGSCFGIRRONSVNSGMMLPMSKDRMELQKSPSTSCLYGKKLSNGSIVPLEDSLNLIEVATEVPKRKTGYFAAPTQMEPEDQFVPHDLEEEVKEQMKQHQSRLPEPEHEEDQTEPPEEFDAL

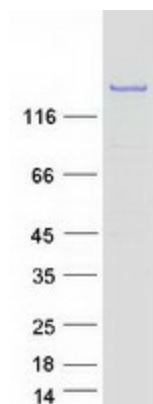
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	146.6 kDa



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_055835</a>
<b>Locus ID:</b>	23035
<b>UniProt ID:</b>	<a href="#">Q6ZVD8</a>
<b>RefSeq Size:</b>	8317
<b>Cytogenetics:</b>	16q22.2
<b>RefSeq ORF:</b>	3969
<b>Synonyms:</b>	PHLPPL; PPM3B
<b>Summary:</b>	<p>Protein phosphatase involved in regulation of Akt and PKC signaling. Mediates dephosphorylation in the C-terminal domain hydrophobic motif of members of the AGC Ser/Thr protein kinase family; specifically acts on 'Ser-473' of AKT1, 'Ser-660' of PRKCB isoform beta-II and 'Ser-657' of PRKCA. Akt regulates the balance between cell survival and apoptosis through a cascade that primarily alters the function of transcription factors that regulate pro- and antiapoptotic genes. Dephosphorylation of 'Ser-473' of Akt triggers apoptosis and decreases cell proliferation. Also controls the phosphorylation of AKT3. Dephosphorylates STK4 on 'Thr-387' leading to STK4 activation and apoptosis (PubMed:20513427). Dephosphorylates RPS6KB1 and is involved in regulation of cap-dependent translation (PubMed:21986499). Inhibits cancer cell proliferation and may act as a tumor suppressor. Dephosphorylation of PRKCA and PRKCB leads to their destabilization and degradation. Dephosphorylates RAF1 inhibiting its kinase activity (PubMed:24530606).[UniProtKB/Swiss-Prot Function]</p>

**Product images:**

Coomassie blue staining of purified PHLPP2 protein (Cat# [TP312846]). The protein was produced from HEK293T cells transfected with PHLPP2 cDNA clone (Cat# [RC212846]) using MegaTran 2.0 (Cat# [TT210002]).