

Recombinant Human PHLPP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PHLPP2-2720H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PHLPP2 MS Standard C13 and N15-labeled recombinant protein (NP_055835) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. Dephosphorylates RPS6KB1 and is involved in regulation of cap-dependent translation. 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.
Molecular Mass	146.7 kDa
AA Sequence	MKRNGSRNCLNRRSRFGSRERDWLREDVKRGCVLYGADTTTATTTTTTSSSSSS

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SSSSSDLHLVLCTVETPASEICAGEGRESLYLQLHGDIVRRLEPTERPLQIVYDYLSR
 LGFDDPVRIQEEATNPDLGCMIRFYGEKPCMDRLDRILLSGIYNVRKGKTQLHKWA
 ERLVVLGCTCLIVSSVKDCQTGKMHILPLVGGKIEEVKRRQYSLAFSSAGAQAQTYH
 VSFETLAEYQRWQRQASKVVSQRISTVDLSCYSLEEVPEHLFYSQDITYLNLRHNM
 QLERPGGLDTLYKFSQLKGLNLSHNKLGFLPILLCEISTLTELNLSNCGFHDLPQIGN
 LLNLQTLCLDGNFLTTLPEELGNLQQLSSLGISFNNFSQIPEVYEKLTMLDRVVMAGN
 CLEVLNLGVLNRMNHIKHVDLRMNHLKTMVIENLEGKNHITHVDLRDNRLTDLDLSSL
 CSLEQLHCGRNQLRELTLSGFSLRTLYASSNRLTAVNVYPVPSLLTFLDLSRNLLECV
 PDWACEAKKIEVLVSYNLLTEVPVRILSSLSLRKMLGHNHVQNPLTLVEHIPLEVL
 DLQHNALTRLPDTLFSKALNRLYNASANSLESLSACTGEESLSMLQLLYLTNNLLT
 DQCIPVLVGHHLRILHLANNQLQTFPASKLNKLEQLEELNLSGNKTKTIPTTIANCKR
 LHTLVAHSNNISIFPEILQLPQIQFVDLSCNDLTEILPEALPATLQDLDTGNTNLVLEH
 KTLDFSHITTLKIDQKPLPTTSTVSTFWSHGLAEMAGQRNKLVCVSALAMDSFAEG
 VGAVYGMFDGDRNEELPRLLQCTMADVLLLEEVQQSTNDTVFMANTFLVSHRKLGM
 AGQKLGSSALLCYIRPDTADPASSFSLTVANVGTCQAVLCRGGKPVPLSKVFSLEQD
 PEEAQRVKDQKAITEDNKVNGVTCCTRMLGCTYLYPWILPKPHISSTPLTIQDELLIL
 GNKALWEHLSYTEAVNAVRHVQDPLAAAKKLCTLAQSYGCQDNVGMVVYLNIGEE
 GCTCEMNGLTLPGPVGFASTTTIKDAPKATPSSSSGIASEFSSEMSTSEVSSEVGS
 TASDEHNAGGLDTALLPRPERRCSLHPTPTSGLFQRQPSSATFSSNQSDNGLDSD
 DQPVGVITNGSKVEVEVDIHCCRGRDLENSPPLIESSPTLCSEEHARGSCFGIRRQ
 NSVNSGMLLPMSKDRMELQKSPSTSCLYGKKLSNGSIVPLEDSLNLIEVATEVPKRK
 TGYFAAPTQMEPEDQFVVPDLEEEVKEQMKQHQSRLPEPEHEEDQTEPPEEFD
 TALTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

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Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PHLPP2 PH domain and leucine rich repeat protein phosphatase 2 [Homo sapiens (human)]

Official Symbol PHLPP2

Synonyms PHLPP2; PH domain and leucine rich repeat protein phosphatase 2; PH domain and leucine rich repeat protein phosphatase like, PHLPPPL; PH domain leucine-rich repeat-containing protein phosphatase 2; KIAA0931; PHLPPPL;

Gene ID 23035

mRNA Refseq NM_015020

Protein Refseq NP_055835

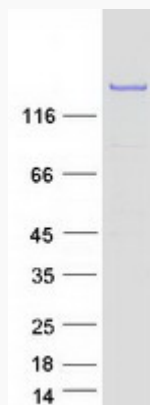
MIM 611066

UniProt ID Q6ZVD8

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SDS-PAGE

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