

Product datasheet for TP519729

Phlpp2 (NM_001122594) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse PH domain and leucine rich repeat protein phosphatase 2 (Phlpp2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR219729 representing NM_001122594
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MGEVEVPAGPLEPPEPEAAAPRRPGGIRVLKRNMKHNGSRTCLNRRSRFGSRERDWLREDVKRGCVYL
 YGADTTTATTTSSSSSSSSSSDLHLVLCVETPASEICAGEGRESLYLQLHGDLVRRLEPSEPLQIVY
 DYLSRLGFEDPVRIQEEATNPDLSCMIRFYGEKPCQMDHLDRILLSGIYNVRKGTQLHKWAERLVVLCG
 TCLIVSSVKDCQTGKMHLPLVGGKIEEVKRRQHSLAFSSAGAQAQTYHVSFETLAEQRWQRQASKVVS
 QRMSTVDLSCYSLEEVPEHLFYSQDITYLNLRHNFMLERPGGLDTLHKFSQLKGLNLSHNKLGFPVLL
 CEISTLTELSCNGFHDLPSEQIGKLLNLQTLSDGNGLTALPDELGNLRQLTSLGISFNDFRHIPEVLE
 KLTMLDKVAMAGNRLEVLNLGALTRMSQVKHVDLRMNHLKTVITENMEGNKHITHMDLRDNQLTDLDSL
 LCSLEQLHCERNQLRELTLSGFSLRTLYASWNRLTAVNVYPVPSLLTSLELSQNILLECVPDWACEAKKLE
 ILDISHNLLTEVPMRILSSLSLRKLMVGHNHIVLPALVEHIPLEVLDIQHNTLSRPLDTLFSKALNLR
 LNASANSLESLSACAGEESLSVLQLLYLTSNLLTDQCIPVLVGHPLRVLHLANNQLQTFPASKLNKLE
 QLEELNLSGNKLTAIPTTIANCKRLHTLVAHANNISIFPEILQLPQIQFVLDLSCNDLTEILPEALPATL
 QDLDLTGNTNLVLEHKTLDMFSHITALKIDQKPLPATDSAVTSTFWSHGLAEMAGQRNKLCVSALAMDNF
 AEGVGAVYGMFDGDRNEELPRLLQCTMADVLLLEEVQHSTNDTVFMTNTFLVSHRKLGMAGQKLGSSALLC
 YIRPDTADPTSSFSLTVANVGMCAVLCRGGKPVPLSKVFSLEHDPEEAQRVKDQKAIITEDNKVNGVTC
 CTRLGCTYLPWILPKPHIASTPLTIQDELLILGNKALWEHLSYLEAVNAVRHVQDPLAAAKKLTCLAQ
 SYGCQDNVGMVWYLNIGEEGCTCEMNGLTLPGPVGFASAAALKDTPKPTTPSSSSGIASEFSSEMSTSE
 VSSEVGSTASDEHNTVGLASLLPRPERRCSLHPASSAGVFQRQPSCATFSSNQSDNGLDSDDDQPEVGV
 ITNGSRVEVEVDIHCCRGREPESPPPKNSSNACSEERARGAGFGIRRQNSVNSGILLPANRDKMELQK
 SPSTSCLYGKKLSNGSIVPLEDSLNLIEVATEAPKRKTGYFAAPTQLEPEDQFVVRDLEEEVKEQMKQH
 QEGRPEPEPRGEERTEPLEEFDAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	150.1 kDa



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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
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_001116066
Locus ID:	244650
UniProt ID:	Q8BXA7 , J3QM82
RefSeq Size:	7854
Cytogenetics:	8 D3
RefSeq ORF:	4065
Synonyms:	AI481772; C130044A18Rik; Phlpp1
Summary:	<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. 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 (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p>