

## Product datasheet for **TP526995**

### Phlpp1 (NM\_133821) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse PH domain and leucine rich repeat protein phosphatase 1 (Phlpp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T



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**Expression cDNA** >MR226995 representing NM\_133821  
**Clone or AA** **Red**=Cloning site **Green**=Tags(s)  
**Sequence:**

MEPAAAAPAQRLADPTGEDQALAAAAAEGGRCPDALSAAAAPSGGNGGAAREAPCEAPPGLPGRAGGT  
 GRRRRRGAQPQAAGGAAPVPAAGGGANSLLLKRGRLKRNLAAAAASSSSSPSSASSAAGGLPASCSASA  
 SLCTRSLDRKTLKKHRQLLQLQPSDRDWRHQLQRGCVHVFDHRMASSYLRPVLTCTLDTTAAEVAARLL  
 QLGHKGGGVKVLGYGPPAAAPAASDQTLDEHGRDVEPPSSGTGAVRGPAPADLPLPGGAWTR  
 CAPRISPAPSDSSPGELFAGGPGSPRAPASDTEFSLSPSAESVSDRLDPYSSGGGGSSSSSELEA  
 DPAMPHRGRPAQPRPPSPKTSALLQPKAPTGV DSTGVIAGEGPGDDKAMAAAAPDVLSTSGRIRETVO  
 KTSPPSLYVQLHGETTRRLEADEKPLQIQNDYLFQLGFGELWRVQEEGMDSEIGCLIRFYAGKPHSTGSS  
 ERIQLSGMYNVRKGMQLPVNRWTRRQVILCGTCLIVSSVKDSVSGKMHVPLIGGKVEEVKKHQHCLAF  
 SSSGPQSQTYYICFDTFTEYLRWLRQVSKVASQRISVDLSCCSLEHLPANLFYSQDLTHLNLKQNFLRQ  
 TPTLPAARGLGELQRFTKLKSLNLSNNHLGAFPSAVCSIPTLAELNVSCNALREVPAAVGDMLNLTQTFLL  
 DGNFLQSLPAELESMLHQLSYLGLSFNEFTDIPEVLEKLTAVDKLCMAGNCVETLRLQALRRMPHIKHVDL  
 RLNLRKLMADDEVDFVQHVTLQDLRDNKLGDL DAMIFNIEVLHCERNQLVTLNVCGYFLKALYASSNEL  
 AQLDVYPVPNYLSYMDVSRNCLESVPEWVCESRKLEVL DIGHNQICELPARLFCNSSLRKLLAGHNRLAR  
 LPERLERTSVEVL DVQHNQITELPPNLLMKADSLRFLNASANKLETLPATLSEETSSILQELYLTNNCL  
 TDKCVPLLTGHPRLKILHMAYNRLQSFASKMAKLEEEIDISGNKKAIPPTIMNCRRMHTVIAHSNC  
 IEVFPEVMQLPEVKVDLSCNELSEITLPENLPPKLQELDLTGNPRLALDHKSLELLNIRCFKIDQPSA  
 GDASGAPAVWSHGYTEASGVKNKLCVAALSVNNFRDNREALYGVFDGDRNVEVPYLLQCTMSDILAEELQ  
 KTKNEEYVMVNTFIVMQRKLG TAGQKLGGA AVLCHIKPDPVDLGGSF LT SANVGKQTVLCRNGKPLSL  
 SRSYIMSCEEERKRIKQHKAIITEDGKVNVTSTRILGYTFLHPSVVRPHVQSVLLTPQDEFFILGSK  
 GLWDSLIDEAVEAVRNP DALAAAKLCTLAQSYGCHDSISAVVQSVT EDSFCCCELSAGGSMPPPS  
 PGIFPPSVNMVIKDRPSDGLGVPSSSSGMASEISSELSTSEMSSEVGSTASDEPPSGVLNESSPAYPNEQ  
 RCMLHPVCLSNFSFQRQLSSATFSSAFSDNGLDSDDEEPIEGVFSNGSRVEVEVDIHC SRAKEKERQQHLL  
 QVPAEASDEGIVISANEDESGLSKKADFSAVGTIGRRRANGSVAPQERSHNVIEVAADAPLRKPGGYFAA  
 PAQPD PDDQFIIPPELEEEVKEIMKHHQEQQQQQQQLPPPPQPPQPQPQPQPQPQPQRHFQMDHLP  
 DCYDTPL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK  
**Predicted MW:** 182.8 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  
**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:	<a href="#">NP_598582</a>
Locus ID:	98432
UniProt ID:	<a href="#">Q8CHE4</a>
RefSeq Size:	6123
Cytogenetics:	1 E2.1
RefSeq ORF:	5061
Synonyms:	AI836256; mKIAA0606; Phlpp; Plekhe1; SCOP
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 AKT2 and AKT3, 'Ser-660' of PRKCB and 'Ser-657' of PRKCA (By similarity). Isoform 2 seems to have a major role in regulating Akt signaling in hippocampal neurons (By similarity). 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 suppression of tumor growth. Dephosphorylation of PRKCA and PRKCB leads to their destabilization and degradation. 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. Dephosphorylates RAF1 inhibiting its kinase activity. May act as a negative regulator of K-Ras signaling in membrane rafts (By similarity). Involved in the hippocampus-dependent long-term memory formation (PubMed:17382888). Involved in circadian control by regulating the consolidation of circadian periodicity after resetting (PubMed:20080691). Involved in development and function of regulatory T-cells (PubMed:21498666).[UniProtKB/Swiss-Prot Function]</p>