

## Product datasheet for TP522014

### Dapk3 (NM\_007828) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse death-associated protein kinase 3 (Dapk3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR222014 representing NM_007828 <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MSTFRQEDVEDHYEMGEELGSGQFAIVRKCCQKGTGMEYAAKFIKKRRLPSSRRGVSREEIEREVSILRE IRHPNIITLHDVFENKTDVWLILELVSGGELFDLAEEKSLTEDEATQFLKQILDGVHYLHAKRIAHFDL KPENIMLLDKHAASPRIKLIDFGIAHRIEAGSEFKNIFGTPEFVAPEIVNYEPLGLEADMWSIGVITYIL LSGASPFLGETKQETLTNISAVNYDFDEEYFSSTSELAKDFIRLLLVKDPKRRMTIAQSLEHSWIKVRRR EDGARKPERRRLRAARLREYSLKSHSSMPRNTSYASFERFSRVLEDVAAAEQGLRELQRGRRCRERVCA LRAAAEQREARCRDGSAGLGRDLRRLRTELGRTEALRTAQEEARAALLGAGGLKRRLCRLENRYDALAA QVAAEVQFVRDLVRALEQERLQAECGVR  <span style="color: red;">SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-MYC/DDK
Predicted MW:	51.4 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_031854</a>
Locus ID:	13144


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UniProt ID: [O54784](#)

RefSeq Size: 1696

Cytogenetics: 10 39.72 cM

RefSeq ORF: 1344

Synonyms: dlk; ZIPK

**Summary:** Serine/threonine kinase which is involved in the regulation of apoptosis, autophagy, transcription, translation and actin cytoskeleton reorganization. Regulates both type I (caspase-dependent) apoptotic and type II (caspase-independent) autophagic cell deaths signal, depending on the cellular setting. Involved in formation of promyelocytic leukemia protein nuclear body (PML-NB). Involved in apoptosis involving PAWR which mediates cytoplasmic relocation; in vitro phosphorylates PAWR (By similarity). Phosphorylates MYL12B in non-muscle cells leading to reorganization of actin cytoskeleton such as in regulation of cell polarity and cell migration. Positively regulates canonical Wnt/beta-catenin signaling through interaction with NLK and TCF7L2; disrupts the NLK-TCF7L2 complex thereby influencing the phosphorylation of TCF7L2 by NLK. Phosphorylates STAT3 and enhances its transcriptional activity. Enhances transcription from AR-responsive promoters in a hormone- and kinase-dependent manner. Phosphorylates histone H3 on 'Thr-11' at centromeres during mitosis (By similarity). Phosphorylates RPL13A on 'Ser-77' upon interferon-gamma activation which is causing RPL13A release from the ribosome, RPL13A association with the GAIT complex and its subsequent involvement in transcript-selective translation inhibition. [UniProtKB/Swiss-Prot Function]