

## Product datasheet for TP527349

### Hipk2 (NM\_001136065) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse homeodomain interacting protein kinase 2 (Hipk2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR227349 representing NM_001136065 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MASHVQVFSPTLQSSAFCSVKLKVPESSNWDMTGYGSHSKVYSQSKNIPSPQASTTVSTSLPIPNS LPYEQTIIIPGSTGHIVVTSASSTSVTGQVLGGPHNLMRRSTVSLLDYQKCGLKRKSEEIENTSSVQII EEHPPMIQNNASGATVATATTSTATSKNSGNSSEGQYQLVQHEVLCSMTNTYEVLEFLGRGTFGQVVKCW KRGTEIVAIIKLNHPSYARQGQIEVSILARLSTESADDYNFVRAYECFQHKNHTCLVFEMLEQNLDF LKQNKFSPLPLKYIRPVLQVATALMKLKSLGLIHADLKPENIMLVDPSPRQPYRVKVIDFGSASHVSKAV CSTYLQSRYYRAPEIILGLPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSA GKTKTRFFNRDTSPLYLWRLKTPDDHEAETGIKSKEARKYIFNCLDDMAQVNMTTDLEGSDMLVEKADR REFIDLLKMLTIDADKRVTPITLNHPFVTMTHLLDFPHSAHVKSCFQNMIEICKRRVNMVDTVNQSKTP FITHVAPSTSTNLTMTFNNQLTTVHNQPSAASMAAVAPRSMPLQTGTAQICARPDFFQALIVCPPGFQG LQASPSKHAGYSVRMENAIVPTQAPGAQPLQIQPGLLAQAWPGGAQILLPPAWQQLTGVATHTSVQHA AVIPETMAGTQQADWRNTHAHGSHYNPIMQQPALLTGHVTLPAQAQLNVGVAHVMRQQPTSTSSRSKSK QHQSSVRNVSTCEVTSSQAISSPQRSKRKVENTPPRCAMVHSSPACSTSVTCGWGDVASSTTRERQRQTI VIPDTPSPTVSVITISSDTDEEEEQKHAPTSTVSKQRKNVISCVTVHDSYSDSSSNTSPYSVQQRGHN GTNTLDTKGGLENHCTGNPRTIIVPPLKTQASEVLVECDLGPASASHHSSSFKSKSSSTVTSTSGHSS GSSSGAIAYRQQRPGPHFQQQPLNLSQAQQHMAADRTGSHRRQQAYITPTMAQAPYTFPHNSPSHGTVH PHLAAAHLPTQPHLYTYTAPTALGSTGTVAHLVASQGSARHTVQHTAYPASIVHQVPVSMGPRVLPST IHPSQYPAQFAHQTYISASPASTVYTYGYPLSPAKVNQYPYI</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	127.3 kDa
<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



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<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<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 after receiving vials.
<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_001129537</a>
<b>Locus ID:</b>	15258
<b>UniProt ID:</b>	<a href="#">Q9QZR5</a> , <a href="#">A0A0R4J204</a>
<b>RefSeq Size:</b>	3972
<b>Cytogenetics:</b>	6 B1
<b>RefSeq ORF:</b>	3486
<b>Synonyms:</b>	1110014O20Rik; B230339E18Rik; Stank
<b>Summary:</b>	<p>Serine/threonine-protein kinase involved in transcription regulation, p53/TP53-mediated cellular apoptosis and regulation of the cell cycle. Acts as a corepressor of several transcription factors, including SMAD1 and POU4F1/Brn3a and probably NK homeodomain transcription factors. Phosphorylates PDX1, ATF1, PML, p53/TP53, CREB1, CTBP1, CBX4, RUNX1, EP300, CTNNB1, HMGA1 and ZBTB4. Inhibits cell growth and promotes apoptosis through the activation of p53/TP53 both at the transcription level and at the protein level (by phosphorylation and indirect acetylation). The phosphorylation of p53/TP53 may be mediated by a p53/TP53-HIPK2-AXIN1 complex. Involved in the response to hypoxia by acting as a transcriptional co-suppressor of HIF1A. Mediates transcriptional activation of TP73. In response to TGFB, cooperates with DAXX to activate JNK. Negative regulator through phosphorylation and subsequent proteasomal degradation of CTNNB1 and the antiapoptotic factor CTBP1. In the Wnt/beta-catenin signaling pathway acts as an intermediate kinase between MAP3K7/TAK1 and NLK to promote the proteasomal degradation of MYB. Phosphorylates CBX4 upon DNA damage and promotes its E3 SUMO-protein ligase activity. Activates CREB1 and ATF1 transcription factors by phosphorylation in response to genotoxic stress. In response to DNA damage, stabilizes PML by phosphorylation. PML, HIPK2 and FBXO3 may act synergically to activate p53/TP53-dependent transactivation. Promotes angiogenesis, and is involved in erythroid differentiation, especially during fetal liver erythropoiesis. Phosphorylation of RUNX1 and EP300 stimulates EP300 transcription regulation activity. Triggers ZBTB4 protein degradation in response to DNA damage. Modulates HMGA1 DNA-binding affinity. In response to high glucose, triggers phosphorylation-mediated subnuclear localization shifting of PDX1. Involved in the regulation of eye size, lens formation and retinal lamination during late embryogenesis.[UniProtKB/Swiss-Prot Function]</p>